

DIABETES

LITERATURE INDEX

NATIONAL INSTITUTE OF ARTHRITIS, METABOLISM, AND DIGESTIVE DISEASES

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CONTENTS

	<i>Page</i>
PREFACE	iv
EDITORIAL NOTE	v
HIERARCHICAL INDEX	
Arrangement of the HIERARCHICAL INDEX.....	1
MEDLARS Terms Included in HIERARCHICAL INDEX	3
KEYWORD INDEX	41
AUTHOR INDEX	111

PREFACE

Diabetes Literature Index is a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases which has been prepared from MEDLARS (Medical Literature Analysis and Retrieval System) tapes furnished by the National Library of Medicine. This specialized information medium is being published to fill an existing great need in the field of diabetes and to assist the Institute in meeting its obligations to foster and support laboratory and clinical research into the nature, causes, and therapy for diabetes. Publication of *Diabetes Literature Index* makes available an index of all current scientific papers relevant to this field from the world literature.

It is hoped that the issuing of *Diabetes Literature Index* under the auspices of the National Institute of Arthritis, Metabolism, and Digestive Diseases will provide a much needed current awareness tool to scientists and will facilitate greater integration of research and clinical efforts in this field. *Diabetes Literature Index* has been published monthly since January 1966 and is cumulated at the end of each calendar year.

This publication is available free to National Institutes of Health grantees and contractors working in the field of diabetes, and libraries of medical schools. Requests from these *qualified* individuals to receive free copies of this publication must include their grant or contract number and the title of their project. These requests as well as address changes and other communications from these qualified recipients of free copies should be addressed to:

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Diabetes Literature Index
National Institute of Arthritis,
Metabolism, and Digestive Diseases
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Bethesda, Maryland 20014

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The Secretary of the Department of Health, Education, and Welfare has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through April 30, 1978

EDITORIAL NOTE

Diabetes Literature Index, a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases (NIAMDD), was brought about through the cooperative efforts of two divisions of the National Institutes of Health (NIAMDD and the National Library of Medicine), a professional society (American Diabetes Association), three Universities (University of Minnesota, University of Rochester, and Case Western Reserve University) as well as a number of individual scientists. In this rather unique cooperative project, initiated in 1958, duplication of effort has been reduced to a minimum. The digital information generated from the original input of bibliographic citations to the National Library of Medicine's MEDLARS system is processed by computer in several different ways and ultimately used to compose the final printed pages of this *Diabetes Literature Index*.

Each month the MEDLARS magnetic tape furnished by the National Library of Medicine (NLM) is used for identification of the diabetes related literature. All bibliographic citations classified under subject headings which we have designated as Priority I, represent articles that are 100% diabetes-related; they are automatically copied onto a new magnetic tape and constitute over seventy percent of the citations appearing in this index. The citations appearing under Priority II and III are subject headings which include both diabetes-related and unrelated articles; these are printed on cards by the computer. The diabetes related citations are identified manually and the corresponding digital information is added to the next month's Priority I magnetic tape.

In the selection of this bibliography, diabetes-related literature has been defined in a rather arbitrary but broad, comprehensive manner with a view toward providing the widest possible coverage of related areas. To this end the following subjects have been included: the Islets of Langerhans in the pancreas, including their structure and pathologic alterations; insulin, its properties, assay, synthesis, release or degradation; the direct and indirect effects of insulin on target organs; blood glucose level, hyper- and hypo-glycemia; insulin antibodies and insulin resistance; insulin allergy; recent developments in intermediary metabolism; experimental and clinical aspects of diabetes, signs, symptoms, diagnosis, treatment, complications, and associated condi-

tions. Also included are other hormones and agents whose effects are similar, opposite, synergistic or antagonistic to insulin, either in their primary or secondary effects on target organs. It should be noted that there are undoubtedly some omissions due to the empirical definition of the diabetes-related literature which was adopted and also to the difficulties attendant in preparing such a large-scale bibliography by machine.

The *Diabetes Literature Index* is published in three formats: a hierarchical subject index, a key word in title index, and an author index. The magnetic tape version of these indexes, prepared at the University of Minnesota, is used to generate the copy for offset printing by the Government Printing Office on their Linotron.

Hierarchical Subject Index: This index differs from *Index Medicus* in that related terms are grouped together in a hierarchical relationship. Thus, all citations which are indexed under blood sugar, glucose tolerance, hyperglycemia, hypoglycemia, and glycosuria are grouped under the general heading "blood sugar, urine sugar and related topics." In both the Diabetes Key Word Index and in *Index Medicus* these terms are arranged alphabetically, and the corresponding citations are distributed at many different page locations. In some instances where only a few citations appear under several similar subject headings, these are grouped together under a more generic term; at times, a new non-MEDLARS index term is created to cover these groupings of subject headings. In some instances where many citations appear under a single subject heading, these are subdivided by using subheadings.

Although the hierarchical subject index is, in a sense, a miniaturized version of *Index Medicus* (dealing with the core diabetes literature) it provides a much greater depth of indexing. Many relevant citations included in the *Diabetes Literature Index* do not appear under the corresponding subject headings in *Index Medicus*; because of space limitations, only two or three of the ten or more index terms included on the MEDLARS magnetic tape are used in the printed version of *Index Medicus*. At times the reason why a given citation appears under a specific subject heading may not be apparent from the article title. However, examination of the list of index terms for this citation (included in the Author Index under

the principal author) will give the basis for this inclusion.

Beginning with the January 1971 issue, two sections are included in the Hierarchical Subject Index. In *Section 1*, "Diabetes Mellitus and Related Topics," the major subdivisions include the MEDLARS terms: Islets of Langerhans, Pancreas, Insulin, Glucagon, Blood and Urine Sugar; the subsection on "Diabetes," (Section 1.F) is extensively subdivided and many subheadings are used. In *Section 2*, "Endocrinology" is divided into subsections dealing with the individual endocrine glands. Hierarchical subject indexes related to Biochemistry and the organ systems (included in the experimental issues, published in February and March, 1969) are not included at this time; terms related to these subjects are, however, included in the Keyword Index.

A list of the subject headings included in the tree structure of the hierarchy (with their corresponding index numbers) and an alphabetic cross index of these subject headings is printed immediately preceding the Hierarchical Subject Index.

Key Word Index: For all of the diabetes-related literature chosen, key words in the title are identified by the computer and an expanded magnetic tape is prepared, listing the complete bibliographic citation under each key word. Most editorial decisions are made by the computer-disk-look-up-program using a master list of terms. Trivial words are deleted and specific word combinations are also selected. Abbreviations and word variant forms are replaced by the more commonly used key word. Inconsistencies between the British and American spellings are eliminated. In no case, however, is a change made within the title itself. Words which have not ap-

peared previously in the system are identified by the computer program and flagged for human decision.

With the publication of the hierarchical subject index, the key word index has been shortened. Diabetes is not included as a term in the key word index as it is covered in great detail in the hierarchical subject index. Although users may find the hierarchical subject index more useful for coverage of their broad interests, the key word index is advantageous in locating citations dealing with very specific terms—for example those relating to biochemistry or the organ systems. The key word index is of special value in locating citations dealing with the frontiers of diabetes research, for new terms appearing in the title are immediately included in the key word index.

Author Index: Because of space limitations, the printed version of *Index Medicus* excludes all but the first three authors in multiple author publications. However since the last author is often the best known, this name may be the most useful for reference or retrieval; therefore, all authors are included in the Diabetes Literature Author Index. These are automatically identified by the computer program and an alphabetized magnetic tape is prepared in which the complete bibliographic citation is included under each author. In addition, all of the index terms used by the NLM for each citation are listed under the principal author, thus providing an overview of the subject content of the article.

Users planning to systematically cover all articles appearing in a given month may do so by scanning the author index, limiting their perusal to the principal author, i.e., those citations which contain the MEDLARS index terms.

Arrangement of the Hierarchical Index

1	SECTION 1. DIABETES MELLITUS AND RELATED TOPICS	1.E.3.5	HYPERGLYCEMIA, DRUG THERAPY
1.A	ISLANDS OF LANGERHANS	1.E.3.6	HYPERGLYCEMIA, ETIOLOGY
1.A.1	ISLANDS OF LANGERHANS, ANATOMY RELATED	1.E.3.7	HYPERGLYCEMIA, METABOLISM
1.A.2	ISLANDS OF LANGERHANS, BIOCHEMISTRY RELATED	1.E.3.8	HYPERGLYCEMIA, PHYSIOPATHOLOGY
1.A.3	ISLANDS OF LANGERHANS, PHYSIOLOGY RELATED	1.E.3.9	HYPERGLYCEMIA, URINE
1.A.4	ISLANDS OF LANGERHANS, PHARMACOLOGY RELATED	1.E.4	GLYCOSURIA
1.A.5	ISLANDS OF LANGERHANS, PATHOLOGY RELATED	1.E.4.1	GLYCOSURIA, CHEMICALLY INDUCED
1.B	PANCREAS	1.E.4.2	GLYCOSURIA, COMPLICATIONS
1.B.1	PANCREAS, ANATOMY RELATED	1.E.4.3	GLYCOSURIA, DIAGNOSIS
1.B.2	PANCREAS, BIOCHEMISTRY RELATED	1.E.4.4	GLYCOSURIA, DRUG THERAPY
1.B.3	PANCREAS, PHYSIOLOGY RELATED	1.E.4.5	GLYCOSURIA, ENZYMOLOGY
1.B.4	PANCREAS, PHARMACOLOGY RELATED	1.E.4.6	GLYCOSURIA, ETIOLOGY
1.B.5	PANCREAS, PATHOLOGY RELATED	1.E.4.7	GLYCOSURIA, METABOLISM
1.B.6	PANCREAS, SURGERY RELATED	1.E.4.8	GLYCOSURIA, OCCURRENCE
1.B.6.1	PANCREAS, TRANSPLANTATION	1.E.5	GLYCOSURIA, RENAL
1.B.6.2	PANCREATECTOMY	1.E.6	HYPOGLYCEMIA
1.C	INSULIN	1.E.6.1	HYPOGLYCEMIA, BLOOD
1.C.1	INSULIN, BIOCHEMISTRY RELATED	1.E.6.2	HYPOGLYCEMIA, CHEMICALLY INDUCED
1.C.1.1	INSULIN, ISOLATION AND PURIFICATION	1.E.6.3	HYPOGLYCEMIA, COMPLICATIONS
1.C.1.2	INSULIN, ANALYSIS	1.E.6.4	HYPOGLYCEMIA, DIAGNOSIS
1.C.1.3	INSULIN, CHEMICAL SYNTHESIS	1.E.6.5	HYPOGLYCEMIA, DRUG THERAPY
1.C.1.4	INSULIN, BIOSYNTHESIS	1.E.6.6	HYPOGLYCEMIA, ETIOLOGY
1.C.1.5	INSULIN, METABOLISM	1.E.6.7	HYPOGLYCEMIA, METABOLISM
1.C.1.6	INSULIN, BLOOD	1.E.6.8	HYPOGLYCEMIA, PHYSIOPATHOLOGY
1.C.1.7	INSULIN, URINE	1.E.6.9	HYPOGLYCEMIA, THERAPY
1.C.2	INSULIN, PHYSIOLOGY RELATED	1.F	DIABETES
1.C.2.1	INSULIN, PHYSIOLOGY	1.F.1	ALLOXAN DIABETES (SEE SEC. 1.F.10.2)
1.C.2.2	INSULIN, SECRETION	1.F.2	DIABETES MELLITUS
1.C.3	INSULIN, PHARMACOLOGY RELATED	1.F.2.1	DIABETES MELLITUS, JUVENILE
1.C.3.1	INSULIN, PHARMACODYNAMICS	1.F.3	DIABETES, BIOCHEMISTRY RELATED
1.C.3.2	INSULIN, ANTAGONISTS AND INHIBITORS	1.F.3.1	DIABETES, METABOLISM
1.C.3.3	INSULIN, ADVERSE EFFECTS	1.F.3.2	DIABETES, ENZYMOLOGY
1.C.4	HYPERINSULINISM	1.F.3.3	DIABETES, BLOOD
1.C.4.1	INSULIN COMA	1.F.3.4	DIABETES, URINE
1.C.5	INSULIN ANTIBODIES	1.F.4	DIABETES, PHYSIOPATHOLOGY
1.C.6	INSULIN RESISTANCE	1.F.5	DIABETES, IMMUNOLOGY
1.C.7	INSULIN, THERAPY RELATED	1.F.6	DIABETES COMPLICATIONS AND PATHOLOGY
1.C.7.1	INSULIN, DIAGNOSTIC USE	1.F.6.1	DIABETIC KETOACIDOSIS
1.C.7.2	INSULIN ADMINISTRATION AND DOSAGE (SEE 1.F.9.3.1)	1.F.6.1.1	ACIDOSIS, DIABETIC
1.C.7.3	INSULIN, THERAPEUTIC USE (SEE 1.F.9.3.2)	1.F.6.1.2	DIABETIC COMA
1.C.8	INSULIN, HISTORY	1.F.6.2	DIABETIC ANGIOPATHIES
1.D	GLUCAGON	1.F.6.3	DIABETIC NEPHROPATHIES
1.D.1	GLUCAGON, BIOCHEMISTRY RELATED	1.F.6.4	DIABETIC NEUROPATHIES
1.D.1.1	GLUCAGON, ANALYSIS	1.F.6.5	DIABETIC RETINOPATHY
1.D.1.2	GLUCAGON, METABOLISM	1.F.6.6	OTHER COMPLICATIONS OF DIABETES
1.D.1.3	GLUCAGON, BLOOD	1.F.6.7	DIABETES PATHOLOGY
1.D.2	GLUCAGON, PHYSIOLOGY RELATED	1.F.6.8	PREGNANCY IN DIABETES
1.D.2.1	GLUCAGON, PHYSIOLOGY	1.F.7	DIABETES OCCURRENCE, ETIOLOGY AND RELATED TERMS
1.D.2.2	GLUCAGON, SECRETION	1.F.7.1	DIABETES, OCCURRENCE
1.D.3	GLUCAGON, PHARMACOLOGY RELATED	1.F.7.2	DIABETES, ETIOLOGY
1.D.3.1	GLUCAGON, ADMINISTRATION AND DOSAGE	1.F.7.3	DIABETES, CONGENITAL
1.D.3.2	GLUCAGON, PHARMACODYNAMICS	1.F.7.4	DIABETES, FAMILIAL AND GENETIC
1.D.3.3	GLUCAGON, TOXICITY	1.F.7.5	PREDIABETIC STATE
1.D.4	GLUCAGON, THERAPY RELATED	1.F.8	DIABETES, DIAGNOSIS RELATED
1.D.4.1	GLUCAGON, DIAGNOSTIC USE	1.F.8.1	GLUCOSE TOLERANCE TEST (SEE SEC. 1.E.2)
1.D.4.2	GLUCAGON, THERAPEUTIC USE	1.F.8.2	DIABETES, DIAGNOSIS
1.E	BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS	1.F.9	DIABETES, THERAPY RELATED
1.E.1	BLOOD SUGAR	1.F.9.1	DIABETES, PREVENTION AND CONTROL
1.E.1.1	BLOOD SUGAR, ANALYSIS	1.F.9.2	DIABETES, NUTRITION AND DIET THERAPY
1.E.1.2	BLOOD SUGAR, BIOSYNTHESIS	1.F.9.2.1	OBESITY IN DIABETES
1.E.1.3	BLOOD SUGAR, METABOLISM	1.F.9.2.2	GLUCOSE, THERAPEUTIC USE
1.E.1.4	BLOOD SUGAR, PHARMACODYNAMICS	1.F.9.2.3	DIET
1.E.2	GLUCOSE TOLERANCE TEST	1.F.9.2.4	DIABETIC DIET
1.E.3	HYPERGLYCEMIA	1.F.9.2.5	DIETARY CARBOHYDRATES
1.E.3.1	HYPERGLYCEMIA, BLOOD	1.F.9.2.6	DIETARY FATS
1.E.3.2	HYPERGLYCEMIA, CHEMICALLY INDUCED	1.F.9.2.7	CYCLAMATES
1.E.3.3	HYPERGLYCEMIA, COMPLICATIONS	1.F.9.2.8	SACCHARIN
1.E.3.4	HYPERGLYCEMIA, DIAGNOSIS	1.F.9.3	DIABETES, INSULIN AND THERAPY

Arrangement of the Hierarchical Index

1.F.9.3.1	INSULIN, ADMINISTRATION AND DOSAGE	2.G.2.6	JUVENILE HORMONES
1.F.9.3.2	INSULIN, THERAPEUTIC USE	2.G.3	CHROMAFFIN SYSTEM
1.F.9.4	DIABETES, ANTIDIABETICS AND THERAPY	2.G.4	PINEAL BODY
1.F.9.4.1	ANTIDIABETICS	2.G.5	PITUITARY-ADRENAL SYSTEM
1.F.9.4.2	TOLBUTAMIDE	2.G.6	SECRETORY RATE
1.F.9.4.3	OTHER SULFONYL-UREA DERIVATIVES		
1.F.9.4.4	PHENFORMIN		
1.F.9.4.5	OTHER BIGUANIDES		
1.F.9.5	DIABETES DRUG THERAPY		
1.F.9.6	DIABETES THERAPY		
1.F.9.7	DIABETES, RADIOGRAPHY		
1.F.9.8	DIABETES, SURGERY		
1.F.9.9	DIABETES, MORTALITY		
1.F.10	DIABETES, EXPERIMENTAL		
1.F.10.1	DIABETES, CHEMICALLY INDUCED		
1.F.10.2	ALLOXAN DIABETES		
1.F.10.2.1	ALLOXAN DIABETES, BLOOD		
1.F.10.2.2	ALLOXAN DIABETES, DRUG THERAPY		
1.F.10.2.3	ALLOXAN DIABETES, ENZYMOLOGY		
1.F.10.2.4	ALLOXAN DIABETES, METABOLISM		
1.F.10.2.5	ALLOXAN DIABETES, PATHOLOGY		
1.F.10.2.6	ALLOXAN DIABETES, PHYSIOPATHOLOGY		
1.F.11	DIABETES, VETERINARY		
1.F.12	DIABETES, HISTORY		
2	SECTION 2. ENDOCRINOLOGY AND RELATED TOPICS		
2.A	ENDOCRINE PANCREAS		
2.A.1	ISLETS (SEE SEC. 1.A)		
2.A.2	INSULIN (SEE SEC. 1.C)		
2.A.3	GLUCAGON (SEE SEC. 1.D)		
2.B	ADRENAL GLANDS		
2.B.1	ADRENAL CORTEX		
2.B.2	ADRENAL CORTEX HORMONES		
2.B.2.1	GLUCOCORTICIDS		
2.B.2.1.1	CORTISONE		
2.B.2.1.2	HYDROCORTISONE		
2.B.2.1.3	OTHER GLUCOCORTICIDS		
2.B.2.2	MINERALOCORTICIDS		
2.B.3	ADRENAL MEDULLA		
2.B.3.1	EPINEPHRINE		
2.B.3.2	NOREPINEPHRINE		
2.B.4	ADRENALECTOMY		
2.B.5	ADRENAL DISORDERS		
2.C	THYROID GLAND		
2.C.1	THYROID HORMONES		
2.C.2	THYROID ANTAGONISTS		
2.C.3	THYROID DISORDERS		
2.D	PARATHYROID GLANDS		
2.E	PITUITARY GLAND		
2.E.1	PITUITARY HORMONES, ANTERIOR		
2.E.1.1	CORTICOTROPIN		
2.E.1.2	SOMATOTROPIN		
2.E.1.3	THYROTROPIN		
2.E.1.4	GONADOTROPINS, PITUITARY		
2.E.2	PITUITARY HORMONES, POSTERIOR		
2.E.3	PITUITARY HORMONES, INTERMEDIATE		
2.E.4	PITUITARY HORMONE-RELEASING FACTORS		
2.E.5	HYPOPHYSPECTOMY		
2.E.6	PITUITARY DISORDERS		
2.F	GONADS		
2.F.1	OVARY		
2.F.2	TESTIS		
2.F.3	SEX HORMONES		
2.F.3.1	ANDROGENS		
2.F.3.2	ESTROGENS		
2.F.3.3	CORPUS LUTEUM AND PROGESTATIONAL HORMONES		
2.F.3.3.1	CORPUS LUTEUM HORMONES		
2.F.3.3.2	PROGESTATIONAL HORMONES		
2.F.3.4	CONTRACEPTIVES, ORAL		
2.F.4	GONADAL DISORDERS		
2.G	OTHER ENDOCRINES AND RELATED TERMS		
2.G.1	ENDOCRINE GLANDS		
2.G.2	HORMONES		
2.G.2.1	GASTROINTESTINAL HORMONES		
2.G.2.2	PROSTAGLANDINS		
2.G.2.3	HORMONES, ECTOPIC		
2.G.2.4	PLACENTAL HORMONES		
2.G.2.5	RELAXIN		

MEDLARS Terms Included in Hierarchical Index

ACETONEHEMID
 ACIDOSIS
 ACIDOSIS, DIABETIC
 ACROMEGALY
 ADDISONS DISEASE
 ADRENAL CORTX HORMONES
 ADRENAL GLAND HYPERFUNCTION
 ADRENAL GLAND HYPOFUNCTION
 ADRENAL GLANDS
 ADRENAL MEDULLA
 ADRENALECTOMY
 ADRENOGENITAL SYNDROME

 ALDOSTERONE
 ALLOXAN DIABETES
 BLOOD
 DRUG THERAPY
 ENZYMOLGY
 METABOLISM
 PATHOLOGY
 PHYSIOPATHOLOGY

 AMMINOCENTESIS
 ANABOLIC STEROIDS
 ANDROGENS
 ANDROSTERONE

 ANTIDIABETICS
 APGAR SCORE
 ARTERIOSCLEROSIS
 BETAMETHASONE
 BIGUANIDES
 BLOOD SUGAR
 ANALYSIS
 BIOSYNTHESIS
 METABOLISM
 PHARMACODYNAMICS
 CALCITONIN
 CARBUTAMIDE
 CHLORMADINONE
 CHLOROTRIANSENE
 CHLORPROPAMIDE
 CHOLECYSTOKININ
 CHOLESTEROL, DIETARY
 CHROMAFFIN SYSTEM
 CONTRACEPTIVES, ORAL
 CORONARY DISEASE
 CORPUS LUTEUM
 CORPUS LUTEUM HORMONES
 CORTICOSTERONE
 CORTICOTROPIN
 CORTICOTROPIN RELEASING HORMONE
 CORTISONE
 CRETINISM
 CUSHINGS SYNDROME
 CYCLAMATES
 CYTOCHALASIN B
 CYTOCHALASINS
 DEHYDROEPIANDROSTERONE

 DESOXYCORTICOSTERONE
 DEXAMETHASONE
 DIABETES INSIPIDUS
 DIABETES MELLITUS
 BLOOD
 CHEMICALLY INDUCED
 COMPLICATIONS
 CONGENITAL
 DIAGNOSIS
 DRUG THERAPY
 ENZYMOLGY
 ETIOLOGY
 FAMILIAL & GENETIC
 HISTORY
 IMMUNOLOGY
 METABOLISM
 MORTALITY
 OCCURRENCE

F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES
F.1.6.1.1 ACIDOSIS, DIABETIC
F.1.6.1.1 ACIDOSIS, DIABETIC
F.2.6 PITUITARY DISORDERS
B.5 ADRENAL DISORDERS
B.2 ADRENAL CORTEX HORMONES
B.5 ADRENAL DISORDERS
B.5 ADRENAL DISORDERS
B.2 ADRENAL GLANDS
B.3 ADRENAL MEDULLA
B.4 ADRENALECTOMY
F.4 GONADAL DISORDERS
B.5 ADRENAL DISORDERS
B.2.2 MINERALCORTICOIDS
F.1.10.2 ALLOXAN DIABETES
F.1.10.2.1 ALLOXAN DIABETES, BLOOD
F.1.10.2.2 ALLOXAN DIABETES, DRUG THERAPY
F.1.10.2.3 ALLOXAN DIABETES, ENZYMOLOGY
F.1.10.2.4 ALLOXAN DIABETES, METABOLISM
F.1.10.2.5 ALLOXAN DIABETES, PATHOLOGY
F.1.10.2.6 ALLOXAN DIABETES, PHYSIOPATHOLOGY
F.1.6.8 PREGNANCY IN DIABETES
F.2.3.1 ANDROGENS
F.2.3.1 ANDROGENS
F.2.3.1 ANDROGENS
B.2.1.3 OTHER GLUCOCORTICOIDS
F.1.9.4.1 ANTIDIABETICS
F.1.6.8 PREGNANCY IN DIABETES
F.1.6.2 DIABETIC ANGIOPATHIES
B.2.1.3 OTHER GLUCOCORTICOIDS
F.1.9.4.5 OTHER BIGUANIDES
E.1.1 BLOOD SUGAR
E.1.1.1 BLOOD SUGAR, ANALYSIS
E.1.2 BLOOD SUGAR, BIOSYNTHESIS
E.1.3 BLOOD SUGAR, METABOLISM
E.1.4 BLOOD SUGAR, PHARMACODYNAMICS
C.1.1 THYROID HORMONES
F.1.9.4.3 OTHER SULFONYL-UREA DERIVATIVES
F.2.3.2 PROGESTATIONAL HORMONES
F.2.3.2 ESTROGENS
F.1.9.4.3 OTHER SULFONYL-UREA DERIVATIVES
G.2.1 GASTROINTESTINAL HORMONES
F.1.9.2.6 DIETARY FATS
G.3 CHROMAFFIN SYSTEM
F.2.3.4 CONTRACEPTIVES, ORAL
F.1.6.2 DIABETIC ANGIOPATHIES
F.1.1 OVARY
F.2.3.3.1 CORPUS LUTEUM HORMONES
B.2.1.3 OTHER GLUCOCORTICOIDS
E.1.1 CORTICOTROPIN
F.4 PITUITARY HORMONE RELEASING FACTORS
B.2.1.1 CORTISONE
C.3 THYROID DISORDERS
B.5 ADRENAL DISORDERS
F.1.9.2.7 CYCLAMATES
I.2.2 INSULIN, SECRETION
I.2.2 INSULIN, SECRETION
B.2.1.3 OTHER GLUCOCORTICOIDS
F.2.3.1 ANDROGENS
B.2.2 MINERALCORTICOIDS
B.2.1.3 OTHER GLUCOCORTICOIDS
F.2.6 PITUITARY DISORDERS
F.2 DIABETES MELLITUS
F.3.3 DIABETES, BLOOD
F.1.10.1 DIABETES, CHEMICALLY INDUCED
F.6.6 OTHER COMPLICATIONS OF DIABETES
F.7.3 DIABETES, CONGENITAL
F.8.2 DIABETES, DIAGNOSIS
F.9.5 DIABETES DRUG THERAPY
F.3.2 DIABETES, ENZYMOLOGY
F.7.2 DIABETES, ETIOLOGY
F.7.4 DIABETES, FAMILIAL AND GENETIC
F.12 DIABETES, HISTORY
F.5 DIABETES, IMMUNOLOGY
F.3.1 DIABETES, METABOLISM
F.9.9 DIABETES, MORTALITY
F.7.1 DIABETES, OCCURRENCE

PATHOLOGY
 PHYSIOPATHOLOGY
 PREVENTION & CONTROL
 RADIOGRAPHY
 SURGERY
 THERAPY
 URINE
 VETERINARY
 DIABETES MELLITUS, JUVENILE
 BLOOD
 CHEMICALLY INDUCED
 COMPLICATIONS
 CONGENITAL
 DIAGNOSIS
 DRUG THERAPY
 ENZYMOLOGY
 ETIOLOGY
 FAMILIAL & GENETIC
 HISTORY
 IMMUNOLOGY
 METABOLISM
 MORTALITY
 OCCURRENCE
 PATHOLOGY
 PHYSIOPATHOLOGY
 PREVENTION & CONTROL
 RADIOGRAPHY
 SURGERY
 THERAPY
 URINE
 VETERINARY
 DIABETIC ANGIOPATHIES
 DIABETIC COMA
 DIABETIC DIET
 DIABETIC NEPHROPATHIES
 DIABETIC NEUROPATHIES
 DIABETIC RETINOPATHY
 DIET
 DIET, ATHEROGENIC
 DIET, REDUCING
 DIETARY CARBOHYDRATES
 DIETARY FATS
 DIETHYLSTILBESTROL
 DIIODOTYROSINE
 DROMOSTANOLONE
 DWARFISM, PITUITARY
 DYODGESTERONE
 ECDYSONE
 ENDOCRINE DISEASES
 ENDOCRINE GLANDS
 ENDOCRINE SYSTEM (NON MESH)
 EPINEPHRINE
 ESTRADIOL
 ESTRIOL
 ESTROGENIC SUBSTANCES, CONJUGATED
 ESTROGENS
 ESTRONE
 ETHINYL ESTRADIOL
 ETHISTERONE
 ETHYLESTRENOL
 ETHYNODIOL DIACETATE
 ETIOCHOLANOLONE
 EUNUCHISM
 FLUDROCORTISONE
 FLUOCINOLONE ACETONIDE
 FLUORMETHOLONE
 FLUOXYMESTERONE
 FLURANDRENOLONE
 FROELICH'S SYNDROME
 FSH
 GASTRIN
 GASTROINTESTINAL HORMONES

- 1.F.6.7 DIABETES PATHOLOGY
- 1.F.4 DIABETES, PATHIOPATHOLOGY
- 1.F.3.1 DIABETES, PREVENTION AND CONTROL
- 1.F.3 DIABETES, RADIOGRAPHY
- 1.F.9.8 DIABETES, SURGERY
- 1.F.9.6 DIABETES THERAPY
- 1.F.3.4 DIABETES, URINE
- 1.F.11 DIABETES, VETERINARY
- 1.F.2.1 DIABETES MELLITUS, JUVENILE
- 1.F.3.3 DIABETES, BLOOD
- 1.F.10.1 DIABETES, CHEMICALLY INDUCED
- 1.F.6.6 OTHER COMPLICATIONS OF DIABETES
- 1.F.7.3 DIABETES, CONGENITAL
- 1.F.8.2 DIABETES, DIAGNOSIS
- 1.F.9.5 DIABETES DRUG THERAPY
- 1.F.3.2 DIABETES, ENZYMOLOGY
- 1.F.7.2 DIABETES, ETIOLOGY
- 1.F.7.4 DIABETES, FAMILIAL AND GENETIC
- 1.F.12 DIABETES, HISTORY
- 1.F.5 DIABETES, IMMUNOLOGY
- 1.F.3.1 DIABETES, METABOLISM
- 1.F.9.9 DIABETES, MORTALITY
- 1.F.7.1 DIABETES, OCCURRENCE
- 1.F.6.7 DIABETES PATHOLOGY
- 1.F.4 DIABETES, PHYSIOPATHOLOGY
- 1.F.9.1 DIABETES, PREVENTION AND CONTROL
- 1.F.9.7 DIABETES, RADIOGRAPHY
- 1.F.9.8 DIABETES, SURGERY
- 1.F.9.6 DIABETES THERAPY
- 1.F.3.4 DIABETES, URINE
- 1.F.11 DIABETES, VETERINARY
- 1.F.6.2 DIABETIC ANGIOPATHIES
- 1.F.6.1.2 DIABETIC COMA
- 1.F.9.2.4 DIABETIC DIET
- 1.F.6.3 DIABETIC NEPHROPATHIES
- 1.F.6.4 DIABETIC NEUROPATHIES
- 1.F.6.5 DIABETIC RETINOPATHY
- 1.F.9.2.3 DIET
- 1.F.9.2.3 DIET
- 1.F.9.2.3 DIET
- 1.F.9.2.5 DIETARY CARBOHYDRATES
- 1.F.9.2.6 DIETARY FATS
- 2.F.3.2 ESTROGENS
- 2.C.1 THYROID HORMONES
- 2.F.3.1 ANDROGENS
- 2.E.6 PITUITARY DISORDERS
- 2.F.3.3.2 PROGESTATIONAL HORMONES
- 2.G.2 HORMONES
- 2.G.1 ENDOCRINE GLANDS
- 2.G.1 ENDOCRINE GLANDS
- 2 SECTION 2. ENDOCRINOLOGY AND RELATED TOPICS
- 2.B.3.1 EPINEPHRINE
- 2.F.3.2 ESTROGENS
- 2.F.3.2 ESTROGENS
- 2.F.3.2 ESTROGENS
- 2.F.3.2 ESTROGENS
- 2.F.3.2 ESTROGENS
- 2.F.3.2 ESTROGENS
- 2.F.3.3.2 PROGESTATIONAL HORMONES
- 2.F.3.2 ESTROGENS
- 2.F.3.1 ANDROGENS
- 2.F.3.3.2 PROGESTATIONAL HORMONES
- 2.F.3.2 ESTROGENS
- 2.F.3.2 ESTROGENS
- 2.F.3.1 ANDROGENS
- 2.F.4 GONADAL DISORDERS
- 2.B.2.1.3 OTHER GLUCOCORTICOIDS
- 2.B.2.2 MINERALCORTICOIDS
- 2.B.2.1.3 OTHER GLUCOCORTICOIDS
- 2.B.2.1.3 OTHER GLUCOCORTICOIDS
- 2.F.3.1 ANDROGENS
- 2.B.2.1.3 OTHER GLUCOCORTICOIDS
- 2.E.6 PITUITARY DISORDERS
- 2.E.1.4 GONADOTROPINS, PITUITARY
- 2.G.2.1 GASTROINTESTINAL HORMONES
- 2.G.2.1 GASTROINTESTINAL HORMONES

MEDLARS Terms Included in Hierarchical Index

- GIANTISM
- GLIBENCLAMIDE
- GLUCAGON
 - ADMINISTRATION & DOSAGE
 - ANALYSIS
 - BLOOD
 - DIAGNOSTIC USE
 - METABOLISM
 - PHARMACODYNAMICS
 - PHYSIOLOGY
 - SECRETION
 - THERAPEUTIC USE
 - TOXICITY
- GLUCOCORTICIDS
 - GLUCOSE
 - THERAPEUTIC USE
 - GLUCOSE TOLERANCE TEST
 - GLYCOSURIA
 - CHEMICALLY INDUCED
 - COMPLICATIONS
 - DIAGNOSIS
 - DRUG THERAPY
 - ENZYMOLGY
 - ETIOLOGY
 - METABOLISM
 - OCCURRENCE
 - GLYCOSURIA, RENAL
 - GOITER, EXOPHTHALMIC
 - GONADOTROPINS, CHORIONIC
 - GONADOTROPINS, EQUINE
 - GONADOTROPINS, PITUITARY
 - GONADS
 - GRAAFIAN FOLLICLE
 - GROWTH DISORDERS
 - HERMAPHRODITISM
 - HEXESTROL
 - HORMONES
 - HORMONES, ECTOPIC
 - HYDROCORTISONE
 - 11-HYDROXYCORTICOSTEROIDS
 - 17-HYDROXYCORTICOSTEROIDS
 - HYDROXYCORTICOSTEROIDS
 - HYDROXYMETHYLTESTOSTERONE
 - HYDROXYPROGESTERONE
- HYPERALDOSTERONISM
- HYPERGLYCEMIA
 - BLOOD
 - CHEMICALLY INDUCED
 - COMPLICATIONS
 - DIAGNOSIS
 - DRUG THERAPY
 - ETIOLOGY
 - METABOLISM
 - PHYSIOPATHOLOGY
 - URINE
- HYPERINSULINISM
- HYPERPITUITARISM
- HYPERTHYROIDISM
- HYPOGLYCEMIA
 - BLOOD
 - CHEMICALLY INDUCED
 - COMPLICATIONS
 - DIAGNOSIS
 - DRUG THERAPY
 - ETIOLOGY
 - METABOLISM
 - PHYSIOPATHOLOGY
 - THERAPY
- HYPOGLYCEMIC AGENTS (NON MESH)
- HYPOGONADISM
- HYPOPHYSECTOMY
- HYPOPITUITARISM
- HYPOTHYROIDISM
- INSULIN
 - ADMINISTRATION & DOSAGE
 - ADVERSE EFFECTS
 - ANALYSIS
 - ANTAGONISTS & INHIBITORS
 - BIOSYNTHESIS
 - BLOOD
 - CHEM SYNTHESIS
 - DIAGNOSTIC USE
 - HISTORY
 - ISOLATION & PURIFICATION
 - METABOLISM
 - PHARMACODYNAMICS
- 2.E.6 PITUITARY DISORDERS
- 1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES
- 1.D. GLUCAGON
 - 1.D.3.1 GLUCAGON, ADMINISTRATION AND DOSAGE
 - 1.D.1.1 GLUCAGON, ANALYSIS
 - 1.D.1.3 GLUCAGON, BLOOD
 - 1.D.4.1 GLUCAGON, DIAGNOSTIC USE
 - 1.D.1.2 GLUCAGON, METABOLISM
 - 1.D.3.2 GLUCAGON, PHARMACODYNAMICS
 - 1.D.2.1 GLUCAGON, PHYSIOLOGY
 - 1.D.2.2 GLUCAGON, SECRETION
 - 1.D.4.2 GLUCAGON, THERAPEUTIC USE
 - 1.D.3.3 GLUCAGON, TOXICITY
 - 2.B.2.1 GLUCOCORTICIDS
 - 1.F.9.2.2 GLUCOSE, THERAPEUTIC USE
 - 1.E.2 GLUCOSE TOLERANCE TEST
 - 1.E.4 GLYCOSURIA
 - 1.E.4.1 GLYCOSURIA, CHEMICALLY INDUCED
 - 1.E.4.2 GLYCOSURIA, COMPLICATIONS
 - 1.E.4.3 GLYCOSURIA, DIAGNOSIS
 - 1.E.4.4 GLYCOSURIA, DRUG THERAPY
 - 1.E.4.5 GLYCOSURIA, ENZYMOLOGY
 - 1.E.4.6 GLYCOSURIA, ETIOLOGY
 - 1.E.4.7 GLYCOSURIA, METABOLISM
 - 1.E.4.8 GLYCOSURIA, OCCURRENCE
 - 1.E.5 GLYCOSURIA, RENAL
 - 2.C.3 THYROID DISORDERS
 - 2.G.2.4 PLACENTAL HORMONES
 - 2.G.2.4 PLACENTAL HORMONES
 - 2.E.1.4 GONADOTROPINS, PITUITARY
 - 2.F. GONADS
 - 2.F.1 OVARY
 - 2.E.6 PITUITARY DISORDERS
 - 2.F.4 GONADAL DISORDERS
 - 2.F.3.2 ESTROGENS
 - 2.G.2 HORMONES
 - 2.G.2.3 HORMONES, ECTOPIC
 - 2.B.2.1.2 HYDROCORTISONE
 - 2.B.2.1.3 OTHER GLUCOCORTICIDS
 - 2.B.2.1.3 OTHER GLUCOCORTICIDS
 - 2.B.2.1.3 OTHER GLUCOCORTICIDS
 - 2.B.2.1.3 OTHER GLUCOCORTICIDS
 - 2.F.3.1 ANDROGENS
 - 2.B.2.1.3 OTHER GLUCOCORTICIDS
 - 2.F.3.3.2 PROGESTATIONAL HORMONES
 - 2.B.5 ADRENAL DISORDERS
 - 1.E.3 HYPERGLYCEMIA
 - 1.E.3.1 HYPERGLYCEMIA, BLOOD
 - 1.E.3.2 HYPERGLYCEMIA, CHEMICALLY INDUCED
 - 1.E.3.3 HYPERGLYCEMIA, COMPLICATIONS
 - 1.E.3.4 HYPERGLYCEMIA, DIAGNOSIS
 - 1.E.3.5 HYPERGLYCEMIA, DRUG THERAPY
 - 1.E.3.6 HYPERGLYCEMIA, ETIOLOGY
 - 1.E.3.7 HYPERGLYCEMIA, METABOLISM
 - 1.E.3.8 HYPERGLYCEMIA, PHYSIOPATHOLOGY
 - 1.E.3.9 HYPERGLYCEMIA, URINE
 - 1.C.4 HYPERINSULINISM
 - 2.E.6 PITUITARY DISORDERS
 - 2.C.3 THYROID DISORDERS
 - 1.E.6 HYPOGLYCEMIA
 - 1.E.6.1 HYPOGLYCEMIA, BLOOD
 - 1.E.6.2 HYPOGLYCEMIA, CHEMICALLY INDUCED
 - 1.E.6.3 HYPOGLYCEMIA, COMPLICATIONS
 - 1.E.6.4 HYPOGLYCEMIA, DIAGNOSIS
 - 1.E.6.5 HYPOGLYCEMIA, DRUG THERAPY
 - 1.E.6.6 HYPOGLYCEMIA, ETIOLOGY
 - 1.E.6.7 HYPOGLYCEMIA, METABOLISM
 - 1.E.6.8 HYPOGLYCEMIA, PHYSIOPATHOLOGY
 - 1.E.6.9 HYPOGLYCEMIA, THERAPY
 - 1.E.6.2 HYPOGLYCEMIA, CHEMICALLY INDUCED
 - 2.F.4 GONADAL DISORDERS
 - 2.E.5 HYPOPHYSECTOMY
 - 2.E.6 PITUITARY DISORDERS
 - 2.C.3 THYROID DISORDERS
 - 1.F. INSULIN
 - 1.F.9.3.1 INSULIN, ADMINISTRATION AND DOSAGE
 - 1.C.3.3 INSULIN, ADVERSE EFFECTS
 - 1.C.1.2 INSULIN, ANALYSIS
 - 1.C.3.2 INSULIN, ANTAGONISTS AND INHIBITORS
 - 1.C.1.4 INSULIN, BIOSYNTHESIS
 - 1.C.1.6 INSULIN, BLOOD
 - 1.C.1.3 INSULIN, CHEMICAL SYNTHESIS
 - 1.C.7.1 INSULIN, DIAGNOSTIC USE
 - 1.C.8 INSULIN, HISTORY
 - 1.C.1.1 INSULIN, ISOLATION AND PURIFICATION
 - 1.C.1.5 INSULIN, METABOLISM
 - 1.C.3.1 INSULIN, PHARMACODYNAMICS
 - PHYSIOLOGY
 - SECRETION
 - THERAPEUTIC USE
 - URINE
 - INSULIN ANTIBODIES
 - INSULIN COMA
 - INSULIN, GLOBIN ZINC
 - INSULIN, ISOPHANE
 - INSULIN, LENTE
 - INSULIN, PROTAMINE ZINC
 - INSULIN RESISTANCE
 - INVERTEBRATE HORMONES
 - ISLANDS OF LANGERHANS
 - ANALYSIS
 - ANATOMY & HISTOLOGY
 - BLOOD SUPPLY
 - CYTOLOGY
 - DRUG EFFECTS
 - EMBRYOLOGY
 - ENZYMOLGY
 - GROWTH & DEVELOPMENT
 - INNERVATION
 - METABOLISM
 - PATHOLOGY
 - PHYSIOLOGY
 - PHYSIOPATHOLOGY
 - SECRETION
 - ISLET CELL TUMOR
 - JUVENILE HORMONES
 - 17-TESTOSTEROIDS
 - KIMMELSTIEL-WILSON SYNDROME
 - KLINEFELTERS SYNDROME
 - LEYDIG CELL TUMOR
 - LEYDIG CELLS
 - LH
 - LH-FSH RELEASING HORMONE
 - LYNDESTRENOL
 - MEDROXYPROGESTERONE
 - MELANOTIN
 - MESTRANOL
 - METHEXAMIDE
 - METFORMIN
 - METHANDROSTENOLONE
 - METHYLPREDNISOLONE
 - METHYLTESTOSTERONE
 - METHYLTHIOURACIL
 - MINERALOCORTICIDS
 - MSH
 - MYXEDEMA
 - NANDROLONE
 - NOREPINEPHRINE
 - NORETHANDROLONE
 - NORETHINDRONE
 - NORTHYNDROLONE
 - NORMETHANDROLONE
 - OBESITY IN DIABETES
 - OVARIAN CYSTS
 - OVARIAN DISEASES
 - OVARIAN NEOPLASMS
 - OVARY
 - OXANDROLONE
 - OXYMETHOLONE
 - OXYTOCICS
 - OXYTOCIN
 - PANCREAS
 - ANALYSIS
 - BLOOD SUPPLY
 - CYTOLOGY
 - DRUG EFFECTS
 - EMBRYOLOGY
 - ENZYMOLGY
 - INNERVATION
 - METABOLISM
 - 1.C.2.1 INSULIN, PHYSIOLOGY
 - 1.C.2.2 INSULIN, SECRETION
 - 1.F.9.3.2 INSULIN, THERAPEUTIC USE
 - 1.C.1.7 INSULIN, URINE
 - 1.C.5 INSULIN ANTIBODIES
 - 1.C.4.1 INSULIN COMA
 - 1.F.9.3.2 INSULIN, THERAPEUTIC USE
 - 1.F.9.3.2 INSULIN, THERAPEUTIC USE
 - 1.F.9.3.2 INSULIN, THERAPEUTIC USE
 - 1.F.9.3.2 INSULIN, THERAPEUTIC USE
 - 1.C.6 INSULIN RESISTANCE
 - 2.G.2.3 HORMONES, ECTOPIC
 - 1.A ISLANDS OF LANGERHANS
 - 1.A.2 ISLANDS OF LANGERHANS, BIOCHEMISTRY RELATED
 - 1.A.1 ISLANDS OF LANGERHANS, ANATOMY RELATED
 - 1.A.1 ISLANDS OF LANGERHANS, ANATOMY RELATED
 - 1.A.1 ISLANDS OF LANGERHANS, ANATOMY RELATED
 - 1.A.4 ISLANDS OF LANGERHANS, PHARMACOLOGY RELATED
 - 1.A.1 ISLANDS OF LANGERHANS, ANATOMY RELATED
 - 1.A.2 ISLANDS OF LANGERHANS, BIOCHEMISTRY RELATED
 - 1.A.1 ISLANDS OF LANGERHANS, ANATOMY RELATED
 - 1.A.1 ISLANDS OF LANGERHANS, ANATOMY RELATED
 - 1.A.2 ISLANDS OF LANGERHANS, BIOCHEMISTRY RELATED
 - 1.A.5 ISLANDS OF LANGERHANS, PATHOLOGY RELATED
 - 1.A.3 ISLANDS OF LANGERHANS, PHYSIOLOGY RELATED
 - 1.A.3 ISLANDS OF LANGERHANS, PHYSIOLOGY RELATED
 - 1.A.5 ISLANDS OF LANGERHANS, PATHOLOGY RELATED
 - 2.G.2.6 JUVENILE HORMONES
 - 2.B.2.1.3 OTHER GLUCOCORTICIDS
 - 1.F.6.3 DIABETIC NEPHROPATHIES
 - 2.F.4 GONADAL DISORDERS
 - 2.F.2 TESTIS
 - 2.E.1.4 GONADOTROPINS, PITUITARY
 - 2.E.1.4 GONADOTROPINS, PITUITARY
 - 2.F.3.3.2 PROGESTATIONAL HORMONES
 - 2.F.3.3.2 PROGESTATIONAL HORMONES
 - 2.E.3 PITUITARY HORMONES, INTERMEDIATE
 - 2.F.3.2 ESTROGENS
 - 1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES
 - 1.F.9.4.5 OTHER BIGUANIDES
 - 2.F.3.1 ANDROGENS
 - 2.B.2.1.3 OTHER GLUCOCORTICIDS
 - 2.F.3.1 ANDROGENS
 - 2.C.2 THYROID ANTAGONISTS
 - 2.B.2.2 MINERALOCORTICIDS
 - 2.E.3 PITUITARY HORMONES, INTERMEDIATE
 - 2.C.3 THYROID DISORDERS
 - 2.F.3.1 ANDROGENS
 - 2.B.3.2 NOREPINEPHRINE
 - 2.F.3.1 ANDROGENS
 - 2.F.3.3.2 PROGESTATIONAL HORMONES
 - 2.F.3.3.2 PROGESTATIONAL HORMONES
 - 2.F.3.1 ANDROGENS
 - 1.F.9.2.1 OBESITY IN DIABETES
 - 2.F.1 OVARY
 - 2.F.4 GONADAL DISORDERS
 - 2.F.4 GONADAL DISORDERS
 - 2.F.1 OVARY
 - 2.F.3.1 ANDROGENS
 - 2.F.3.1 ANDROGENS
 - 2.E.2 PITUITARY HORMONES, POSTERIOR
 - 2.E.2 PITUITARY HORMONES, POSTERIOR
 - 1.B PANCREAS
 - 1.B.2 PANCREAS, BIOCHEMISTRY RELATED
 - 1.B.1 PANCREAS, ANATOMY RELATED
 - 1.B.1 PANCREAS, ANATOMY RELATED
 - 1.B.4 PANCREAS, PHARMACOLOGY RELATED
 - 1.B.1 PANCREAS, ANATOMY RELATED
 - 1.B.2 PANCREAS, BIOCHEMISTRY RELATED
 - 1.B.1 PANCREAS, ANATOMY RELATED
 - 1.B.2 PANCREAS, BIOCHEMISTRY RELATED

MEDLARS Terms Included in Hierarchical Index

PATHOLOGY
 PHYSIOLOGY
 PHYSIOPATHOLOGY
 SECRETION
 TRANSPLANTATION
 PANCREATECTOMY
 PANCREATIC DISEASES
 PANCREATIC EXTRACTS
 PANCREATIC HORMONES
 PANCREOZYMIN
 PARAMETHASONE
 PARATHYROID DISEASES
 PARATHYROID GLANDS
 PARATHYROID HORMONE
 PHENFORMIN
 PINEAL BODY
 PITUITARY-ADRENAL SYSTEM
 PITUITARY GLAND
 PITUITARY HORMONE RELEASING
 HORMONES
 PITUITARY HORMONES, ANTERIOR
 PITUITARY HORMONES, POSTERIOR
 PLACENTA DISORDERS
 PLACENTAL HORMONES
 PREDIABETIC STATE
 PREDNISOLONE
 PREDNISON
 PREGNANCY
 PREGNANCY IN DIABETES
 PREGNANEDIOL
 PREGNANETRIOL

 PREGNENOLONE

 PROGESTATIONAL HORMONES
 PROGESTERONE
 PROINSULIN
 PROLACTIN
 PROPYLTHIOURACIL
 PROTAGLANDINS
 PUBERTY, PRECOCIOUS
 RECEPTORS, HORMONE
 RELAXIN
 SACCCHARIN
 SECRETIN
 SECRETORY RATE
 SERTOLI CELL TUMOR
 SERTOLI CELLS
 SEX DIFFERENTIATION DISORDERS
 SEX HORMONES
 SHEEHAN'S SYNDROME
 SKIN ULCER
 SOMATOTROPIN
 SOMATOTROPIN RELEASING HORMONE
 STANDLOLE
 STANOZOLOL
 TESTICULAR DISEASES
 TESTICULAR FEMINIZATION
 TESTICULAR NEOPLASMS
 TESTIS
 TESTOSTERONE
 THIOCYANATES
 THIOURACIL
 THIOUREA
 THYROID ANTAGONISTS
 THYROID CRISIS
 THYROID GLAND
 THYROID HORMONES
 THYROIDITIS
 THYROIDITIS, LYMPHOMATOUS
 THYRONINE
 THYROTROPIN
 THYROTROPIN RELEASING HORMONE
 THYROXINE
 TOLAZAMIDE
 TOLBUTAMIDE
 TRIAMCINOLONE
 TRIIODOTHYRONINE
 TURNERS SYNDROME
 VASOPRESSIN
 VIRILISM
 WATERHOUSE-FRIDERICHSEN SYNDROME



SECTION 1. DIABETES MELLITUS AND RELATED TOPICS

1.A ISLANDS OF LANGERHANS

[TEMPORARY NORMALIZATION OF BLOOD SUGAR, IN A TOTALLY PANCREATECTOMIZED DOG, AFTER PLACING AN ARTIFICIAL INSULIN DISTRIBUTOR] Orsetti A, Hagelsteen C, Zouari N *C R Soc Biol (Paris)* 171: 858-64, 1977 (Fre) DL/78APR200

ALPHA-1-ANTITRYPSIN IMMUNOREACTIVITY IN ISLET CELLS OF ADULT HUMAN PANCREAS. Ray MB, Desmet VJ, Gepts W *Cell Tissue Res* 185: 63-8, 30 Nov 77 (Eng) DL/78APR206

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1.A.1 ISLANDS OF LANGERHANS, ANATOMY RELATED

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1.A.2 ISLANDS OF LANGERHANS, BIOCHEMISTRY RELATED

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1.B PANCREAS

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[SUPPRESSIBILITY OF THE PANCREATIC BETA CELLS] Morishita S, Miyashita M, Ishikawa K, Tarui S, Shima K *Hormon To Rinsho* 25: 1099-106, Oct 77 (Jpn) DL/78APR227

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LONG-TERM ACTIONS OF SULFONYLUREAS ON (PRO-) INSULIN BIOSYNTHESIS AND SECRETION: I. LACK OF EVIDENCE FOR A COMPENSATORY INCREASE IN (PRO-) INSULIN BIOSYNTHESIS AFTER EXPOSURE OF ISOLATED PANCREATIC RAT ISLETS TO TOLBUTAMIDE AND GLIBENCLAMIDE IN VITRO. Schatz H, Steidle D, Pfeiffer EF *Horm Metab Res* 9: 457-65, Nov 77 (Eng) DL/78APR316

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1.B PANCREAS

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1.C.1.1 INSULIN, ISOLATION AND PURIFICATION

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[THE PHYSIOLOGICAL ROLE OF SOMATOSTATIN IN INSULIN RELEASE—ENHANCED INSULIN RELEASE FROM RAT ISLETS PRE-TREATED WITH ANTI-SOMATOSTATIN SERUM (AUTHORS TRANSL.)] Murakami K, Taniguchi H, Hasegawa M, Kobayashi T, Watanabe Y *Nippon Naibunpi Gakkai Zasshi* 53: 1140-7, 20 Oct 77 (Jpn) DL/78APR271

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1.B.2 PANCREAS, BIOCHEMISTRY RELATED

[FUNCTIONAL STATE OF THE PANCREAS IN PATIENTS WITH ECZEMA] Burykina GN, Ivanova VS *Vestn Dermatol Venerol* 19-22, Jun 77 (Rus) *DL/78APR134

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1.B.6 PANCREAS, SURGERY RELATED

1.B.6.1 PANCREAS, TRANSPLANTATION

AUTOTRANSPLANTATION OF PANCREATIC FRAGMENTS TO THE PORTAL VEIN AND SPLEEN OF TOTALLY PANCREATECTOMIZED DOGS: A COMPARATIVE EVALUATION. Kretschmer GJ, Sutherland DR, Matas AJ, Payne WD, Najarian JS *Ann Surg* 187: 79-86, Jan 78 (Eng) DL/78APR539

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Diabetes Literature—Hierarchical Index

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1.C.1.3 INSULIN, CHEMICAL SYNTHESIS

STRUCTURE AND ACTIVITY OF INSULIN, XVI[1-5]. FURTHER EVIDENCE FOR THE IMPORTANCE OF ARGININE RESIDUE B22 IN THE ACTIVITY OF INSULIN. SEMISYNTHESIS OF DESPENTAPEPTIDE-(B23 - 30)-INSULIN VARIED IN B22 USING DESNONAPEPTIDE-(B22 - 30)-INSULIN AND TETRAPEPTIDES. Weitzel G, Bauer FU, Rehe Z, Hoppe Seylers Z *Physiol Chem* 358: 1573-82, Dec 77 (Eng) DL/78APR329

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[BLOOD CPR LEVELS IN DIABETES MELLITUS DURING INSULIN THERAPY, WITH SPECIAL REFERENCE TO THE CHARACTERISTICS OF PLC (PROINSULIN-LIKE COMPONENTS) AND C-PEPTIDE IN FRACTIONAL ANALYSIS] Oyama H, Nakajima Y, Amagu A, Matsumura S, Nishida S *Horumon To Rinsho* 25: 1107-12, Oct 77 (Jpn) DL/78APR228

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[INSULIN-POIETIC EFFECT OF PENTAGASTRIN AFTER BETA-ADRENERGIC BLOCK IN THE ANESTHESIZED DOG] Costa G, Trovato A, Scarpignato C *Farmaco [Sci]* 32: 872-8, Dec 77 (Ita) DL/78APR267

PLASMA PROINSULIN, C-PEPTIDE AND INSULIN IN DIAGNOSTIC SUPPRESSION TESTS FOR INSULINOMAS. Turner RC, Heding LG *Diabetologia* 13: 571-7, Dec 77 (Eng) DL/78APR289

LONG-TERM ACTIONS OF SULFONYLUREAS ON (PRO-) INSULIN BIOSYNTHESIS AND SECRETION: I. LACK OF EVIDENCE FOR A COMPENSATORY INCREASE IN (PRO-) INSULIN BIOSYNTHESIS AFTER EXPOSURE OF ISOLATED PANCREATIC RAT ISLETS TO TOLBUTAMIDE AND GLIBENCLAMIDE IN VITRO. Schatz H, Steinle D, Pfeiffer EF *Horm Metab Res* 9: 457-65, Nov 77 (Eng) DL/78APR316

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TO TOLBUTAMIDE AND GLIBENCLAMIDE IN VITRO. Schatz H, Steinle D, Pfeiffer EF *Horm Metab Res* 9: 457-65, Nov 77 (Eng) DL/78APR316

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EVIDENCE THAT FATTY ACID SYNTHESIS IN THE INTERSCAPULAR BROWN ADIPOSE TISSUE OF COLD-ADAPTED RATS IS INCREASED IN VIVO BY INSULIN BY MECHANISMS INVOLVING PARALLEL ACTIVATION OF PYRUVATE DEHYDROGENASE AND ACETYL-COENZYME A CARBOXYLASE. McCormack JG, Denton RM *Biochem J* 166: 627-30, 15 Sep 77 (Eng) DL/78APR553

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1.D.3.3 GLUCAGON, TOXICITY

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1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

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GLUCOSE UTILIZATION AND ROLE OF BLOOD IN ENDOTOXIN SHOCK. Hinshaw LB, Archer LT, Beller BK, White GL, Schroeder TM, Holmes DD *Am J Physiol* 233: e71-9, Aug 77 (Eng) *DL/78APR144

EFFECT OF BURN TRAUMA ON GLUCOSE TURNOVER, OXIDATION, AND RECYCLING IN GUINEA PIGS. Wolfe RR, Burke JF *Am J Physiol* 233: e80-5, Aug 77 (Eng) *DL/78APR145

INTRAVENOUS INFUSION OF A DEXTRIN, CALOREEN, IN HUMAN SUBJECTS: METABOLIC STUDIES. Bibby RJ, Davies D, Mallick NP, Atherton ST, Wright DM, Ricketts CR, Milner J *Br J Nutr* 38: 341-52, Nov 77 (Eng) DL/78APR169

THE REGULATION OF GLUCONEOGENESIS BY DIET AND INSULIN IN RAINBOW TROUT (SALMO GAIARDNERI). Cowey CB, Knox D, Walton MJ, Adron JW *Br J Nutr* 38: 46C-70, Nov 77 (Eng) DL/78APR171

THE PROTEIN-SPARING EFFECT OF CARBOHYDRATE. 2. THE ROLE OF INSULIN. Fuller MF, Weekes TE, Cadenhead A, Bruce JB *Br J Nutr* 38: 489-96, Nov 77 (Eng) DL/78APR172

DEFECTIVE BLOOD GLUCOSE COUNTERREGULATION IN DIABETICS IS A SELECTIVE FORM OF AUTONOMIC NEUROPATHY. Campbell LV, Kraegen EW, Lazarus L *Br Med J* 2: 1527-9, 10 Dec 77 (Eng) DL/78APR194

HOW TO TREAT MATURITY-ONSET DIABETES MELLITUS. Palumbo PJ *Geriatrics* 32: 57-63, Dec 77 (Eng) DL/78APR308

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[RECENT DEVELOPMENT IN THE DIABETES-THERAPY] Landgraf R, Dietlerle C *Internist (Berlin)* 18: 509-19, Oct 77 (Ger) [0 ref.] DL/78APR335

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MEASUREMENT OF GLUCOSE-INDUCED INSULIN DELIVERY RATE IN MAN BY DECONVOLUTION ANALYSIS. Pilo A, Ferrannini E, Navalesi R *Am J Physiol* 233: e500-8, Dec 77 (Eng) DL/78APR526

AUTOTRANSPLANTATION OF PANCREATIC FRAGMENTS TO THE PORTAL VEIN AND SPLEEN OF TOTALLY PANCRECTOMIZED DOGS: A COMPARATIVE EVALUATION. Kretschmer GJ, Sutherland DR, Matas AJ, Payne WD, Najarian JS *Ann Surg* 187: 79-86, Jan 78 (Eng) DL/78APR539

1.E.1.1 BLOOD SUGAR, ANALYSIS

AN IMMOBILIZED HEXOKINASE ENZYME STIRRER FOR A SIMPLE AND ECONOMIC ASSAY OF PLASMA GLUCOSE. Kiang SW, Kuan JW, Kuan SS, Guilbault GG *Clin Chim Acta* 78: 495-8, 1 Aug 77 (Eng) *DL/78APR22

SERUM GLUCOSE LEVELS AND ALCOHOL-CONSUMPTION HABITS IN A LARGE POPULATION. Jose Gerard M, Klatzky AL, Siegelhub AB, Friedman GD, Feldman R *Diabetes* 26: 780-5, Aug 77 (Eng) *DL/78APR37

TOTAL INTRAVENOUS FEEDING OF CALVES. Hoffsis GF, Gingerich DA, Sherman DM, Bruner RR Jr *J Am Vet Med Assoc* 171: 67-70, 1 Jul 77 (Eng) *DL/78APR48

INDUCTION OF A PALE, SOFT, EXUDATE-LIKE MYOPATHY AND SUDDEN DEATH IN PIGS BY INJECTION OF ANTERIOR PITUITARY EXTRACT. Kraeling RR, Rampack GB *J Anim Sci* 45: 71-80, Jul 77 (Eng) *DL/78APR49

CHANGES IN BLOOD SUGAR AND OSMOLALITY DURING DIALYSIS WITH GLUCOSE FREE DIALYSIS SOLUTION. Mittal GS, Chugh KS, Sharma BK, Singhal PC *J Assoc Physicians India* 24: 819-25, Dec 76 (Eng) *DL/78APR51

A LIPOGENIC EFFECT IN INTACT MALE HAMSTERS INFECTED WITH PLEROCOCIDS OF THE TAPEWORM, SPIROMETRA MANSONOIDES. Phares CK, Carroll RM *J Parasitol* 63: 690-3, Aug 77 (Eng) *DL/78APR75

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HYPERTRIGLYCERIDAEMIA AND HYPERURICAEMIA [LETTER] Elkeles RS, Chalmers RA *Lancet* 2: 252, 30 Jul 77 (Eng) *DL/78APR92

[HYDROLYSIS AND CARBOHYDRATE ABSORPTION PROCESSES IN CHILDREN WITH HYPOTROPHY OF ALIMENTARY AND INFECTIONOUS ORIGIN] Smian IS, Loboda VF *Pediatr Akush Ginekol* 16-7, Mar-Apr 77 (Ukr) *DL/78APR105

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PHYSIOLOGICAL RESPONSES TO COLA INGESTION. van Handel PJ, Burke E, Costill DL, Cote R *Res Q Am Assoc Health Phys Educ* 48: 436-44, May 77 (Eng) *DL/78APR117

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Diabetes Literature—Hierarchical Index

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- [ELECTRON MICROSCOPICAL OBSERVATIONS ON THE CURATIVE EFFECT OF UR-SODESOXYCHOLIC ACID IN ALLOXAN-INDUCED PANCREATIC ISLET CELL INJURY (AUTHORS TRANSL)]** Watari N, Mabuchi Y, Hotta Y *Nippon Naibunpi Gakkai Zasshi* 53: 1191-201, 20 Oct 77 (Jpn) DL/78APR272
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- MODULATION OF THE CATABOLIC ACTIVITY OF GLUCAGON BY ENDOGENOUS INSULIN SECRETION IN OBESE MAN.** Schade DS, Eaton PR *Acta Diabetol Lat* 14: 62-72, Jan-Apr 77 (Eng) DL/78APR506
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- [RELATIONSHIP BETWEEN THE MEASUREMENT AND COMPUTATION OF SERUM OSMOLALITY]** Kazda A, Hendl J *Vnir Lek* 23: 609-15, Jun 77 (Cze) *DL/78APR123
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- [FUNCTIONAL STATE OF THE PANCREAS IN PATIENTS WITH ECZEMA]** Burykina GN, Ivanova VS *Vestn Dermatol Venerol* 19-22, Jun 77 (Rus) *DL/78APR134
- DISURBANCES OF FAT, CARBOHYDRATE, MAGNESIUM AND PROTEIN BALANCE IN**

Diabetes Literature—Hierarchical Index

1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

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- [PSYCHOSOMATIC ASPECTS OF DIABETES MELLITUS]** Kammerer W, Reindell A Z *Psychosom Med Psychoanal* 23: 351-62, Oct-Dec 77 (Ger) DL/78APR500
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Diabetes Literature—Hierarchical Index

1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

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1.E.1.4 BLOOD SUGAR, PHARMACODYNAMICS

1.E.2 GLUCOSE TOLERANCE TEST

METABOLIC AND HORMONAL STUDIES IN PATIENTS WITH ESSENTIAL HYPERTENSION. Januszewicz W, Ciswicka-Sznajderman M, Wocial B, Sznajderman M, Ignatowska-Switalska H, Berent H, Zukowska-Grojec Z, Feltynowski T *Br Heart J* 39: 1205-9, Nov 77 (Eng) DL/78APR166

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[COMPARISON BETWEEN GLUCOSE AND TOLERAN G50, WITH SPECIAL REFERENCE TO BLOOD SUGAR, INSULIN AND C-PEPTIDE LEVELS] Ide H, Aikawa T, Oguma Y, Sakai H *Hormon To Rinsho* 25: 1161-3, Oct 77 (Jpn) DL/78APR230

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REVERSAL OF STREPTOZOTOCIN-INDUCED DIABETES IN RATS BY INTRAPERITONEAL IMPLANTATION OF ENCAPSULATED NEONATAL RABBIT PANCREATIC TISSUE. Gates RJ, Lazarus NR *Lancet* 2: 1257-9, 17 Dec 77 (Eng) DL/78APR398

METABOLIC ASPECTS OF MENIERES DISEASE. Powers WH *Laryngoscope* 88: 122-9, Jan 78 (Eng) DL/78APR405

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INSULIN RELEASE IN HYPERURICEMIC PATIENTS. Butturini U, Coscelli C, Zavaroni I *Acta Diabetol Lat* 14: 73-8, Jan-Apr 77 (Eng) DL/78APR507

THE EFFECT OF URINARY GLUCOSE EXCRETION ON THE PLASMA GLUCOSE CLEARANCES AND PLASMA INSULIN RESPONSES TO INTRAVENOUS GLUCOSE LOADS IN UNANAESTHETIZED DOGS. Kaneko JJ, Mattheeuws D, Rottiers RP, Van Der Stoek J, Vermeulen A *Acta Endocrinol (Kbh)* 87: 133-8, Jan 78 (Eng) DL/78APR509

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PLASMA INSULIN RESPONSE FOLLOWING INTRAVENOUS GLUCOSE IN GESTATIONAL DIABETICS. Muck BR, Hommel G *Arch Gynaekol* 223: 259-68, 29 Nov 77 (Eng) DL/78APR545

[THE USE OF THE DISCRIMINANT ANALYSIS FOR JUDGING THE GLUCOSE TOLERANCE OF PREGNANT WOMEN BY TIME-DEPENDENT MEASUREMENTS OF SERUM INSULIN (AUTHORS TRANSL)] Hommel G, Muck BR *Arch Gynaekol* 223: 315-21, 29 Nov 77 (Ger) DL/78APR546

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1.E.3 HYPERGLYCEMIA

Diabetes Literature—Hierarchical Index

1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

CONTROL OF HYPERGLYCAEMIA IN YOUNG DIABETICS [LETTER] Betteridge DJ *Br Med J* 2: 1220-1, 5 Nov 77 (Eng) DL/78APR187

HLA IN MATURITY-ONSET TYPE OF HYPERGLYCAEMIA IN THE YOUNG. Barbosa J, King R, Goetz FC, Noreen H, Yunis EJ *Arch Intern Med* 138: 90-3, Jan 78 (Eng) DL/78APR544

1.E.3.1 HYPERGLYCEMIA, BLOOD

PSYCHOLOGIC MANAGEMENT OF CHILDREN WITH DIABETES MELLITUS. Tomm KM, McArthur RG, Leahy MD *Clin Pediatr (Phila)* 16: 1151-5, Dec 77 (Eng) DL/78APR235

1.E.3.2 HYPERGLYCEMIA, CHEMICALLY INDUCED

SALBUTAMOL-INDUCED KETOACIDOSIS [LETTER] Leopold D, McEvoy A *Br Med J* 2: 1152-3, 29 Oct 77 (Eng) DL/78APR185

CONVULSIONS AND HYPERGLYCAEMIA ASSOCIATED WITH NALIDIXIC ACID. Fraser AG, Harrower AD *Br Med J* 2: 1518, 10 Dec 77 (Eng) DL/78APR193

1.E.3.3 HYPERGLYCEMIA, COMPLICATIONS

HYPERGLYCAEMIA AND COMPLICATIONS OF DIABETES [LETTER] Anonymous *Br Med J* 2: 1150-1, 29 Oct 77 (Eng) DL/78APR184

HYPERGLYCAEMIA AND COMPLICATIONS OF DIABETES [LETTER] Rusch R, Gunderson HJ *Br Med J* 2: 1220, 5 Nov 77 (Eng) DL/78APR186

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ALTERNATE-DAY CORTICOSTEROID EFFECT ON LIPID METABOLISM. Galla JH, Beaumont JE, Curtis JJ, Rees ED, Luke RG *J Lab Clin Med* 91: 123-6, Jan 78 (Eng) DL/78APR359

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1.E.3.4 HYPERGLYCEMIA, DIAGNOSIS

1.E.3.5 HYPERGLYCEMIA, DRUG THERAPY

METFORMIN IN THE TREATMENT OF OBESE DIABETICS. Shenfield GM, Bhalla IP, Steel JM, Duncan LJ *Practitioner* 219: 745-9, Nov 77 (Eng) DL/78APR448

1.E.3.6 HYPERGLYCEMIA, ETIOLOGY

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PSYCHOLOGIC MANAGEMENT OF CHILDREN WITH DIABETES MELLITUS. Tomm KM, McArthur RG, Leahy MD *Clin Pediatr (Phila)* 16: 1151-5, Dec 77 (Eng) DL/78APR235

[PERSONAL EXPERIENCE WITH HIGH DOSES OF 6-METHYLPREDNISOLONE IN HUMAN RENAL TRANSPLANTATION] Muolo A, Longo M *Minerva Chir* 32: 1197-210, 15 Oct 77 (Ita) DL/78APR428

1.E.3.7 HYPERGLYCEMIA, METABOLISM

LIPOLYSIS AND CYCLIC AMP LEVELS IN EPIDIDYMAL ADIPOSE TISSUE OF OBESE-HYPERGLYCAEMIC MICE. Dehaye JP, Winand J, Christophe J *Diabetologia* 13: 553-61, Dec 77 (Eng) DL/78APR287

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1.E.3.9 HYPERGLYCEMIA, URINE

1.E.4 GLYCOSURIA

THE RELATIONSHIP BETWEEN THE RENAL EFFECTS OF CADMIUM AND CADMIUM CONCENTRATION IN URINE AMONG THE INHABITANTS OF CADMIUM-POLLUTED AREAS. Nogawa K, Kobayashi E, Inaoka H, Ishizaki A *Environ Res* 14: 391-400, Dec 77 (Eng) DL/78APR259

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[COMPARATIVE STUDIES DURING POSTOPERATIVE INFUSION OF GLUCOSE OR A COMBINATION OF GLUCOSE, FRUCTOSE AND XYLITOL OVER FIVE DAYS (AUTHORS TRANSL.)] Goschke H, Leutenegger AF, Mannhart H, Stutz K, Werdenberg D, Allgower M *Klin Wochenschr* 55: 115-9, 15 NOV 77 (Ger) DL/78APR381

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1.E.4.1 GLYCOSURIA, CHEMICALLY INDUCED

1.E.4.2 GLYCOSURIA, COMPLICATIONS

CONTROL OF HYPERGLYCAEMIA IN YOUNG DIABETICS [LETTER] Betteridge DJ *Br Med J* 2: 1220-1, 5 Nov 77 (Eng) DL/78APR187

1.E.4.3 GLYCOSURIA, DIAGNOSIS

FALSE-NEGATIVE RESULTS IN URINE TESTING FOR GLUCOSE [LETTER] Browne SE *Br Med J* 2: 1670, 24-31 Dec 77 (Eng) DL/78APR198

[GLUCOSE IN THE NEWBORN. A KINETIC STUDY (AUTHORS TRANSL.)] Stock GJ, Gladtkie E *Monatsschr Kinderheilkd* 125: 935-7, Nov 77 (Ger) DL/78APR417

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1.E.4.4 GLYCOSURIA, DRUG THERAPY

METFORMIN IN THE TREATMENT OF OBESE DIABETICS. Shenfield GM, Bhalla IP, Steel JM, Duncan LJ *Practitioner* 219: 745-9, Nov 77 (Eng) DL/78APR448

1.E.4.5 GLYCOSURIA, ENZYMOLOGY

1.E.4.6 GLYCOSURIA, ETIOLOGY

[PERSONAL EXPERIENCE WITH HIGH DOSES OF 6-METHYLPREDNISOLONE IN HUMAN RENAL TRANSPLANTATION] Muolo A, Longo M *Minerva Chir* 32: 1197-210, 15 Oct 77 (Ita) DL/78APR428

1.E.4.7 GLYCOSURIA, METABOLISM

1.E.4.8 GLYCOSURIA, OCCURRENCE

1.E.5 GLYCOSURIA, RENAL

1.E.6 HYPOGLYCEMIA

HOW TO TREAT MATURITY-ONSET DIABETES MELLITUS. Palumbo PJ *Geriatrics* 32: 57-63, Dec 77 (Eng) DL/78APR308

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TOTAL PARENTERAL NUTRITION. Reinhardt GF, De Orio AJ, Kaminski MV Jr *Surg Clin North Am* 57: 1283-301, Dec 77 (Eng) DL/78APR481

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1.E.6.2 HYPOGLYCEMIA, CHEMICALLY INDUCED

Diabetes Literature—Hierarchical Index

1.F DIABETES

ACEBUTOLOL, ATENOLOL, AND PROPRANOLOL AND METABOLIC RESPONSES TO ACUTE HYPOGLYCAEMIA IN DIABETICS. Deacon SP, Karunanayake A, Barnett D *Br Med J* 2: 1255-7, 12 Nov 77 (Eng) DL/78APR188

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1.E.6.3 HYPOGLYCEMIA, COMPLICATIONS

HYPOGLYCAEMIC SYNDROMES AND ANTIBODIES TO PANCREATIC ISLET CELLS. Di Mario U, Tamburrano G, Iavicoli M, Irvine WJ *Clin Exp Immunol* 29: 523-4, Sep 77 (Eng) DL/78APR234

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METABOLIC ASPECTS OF MENIERES DISEASE. Powers WH *Laryngoscope* 88: 122-9, Jan 78 (Eng) DL/78APR405

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1.E.6.4 HYPOGLYCEMIA, DIAGNOSIS

1.E.6.5 HYPOGLYCEMIA, DRUG THERAPY

ACEBUTOLOL, ATENOLOL, AND PROPRANOLOL AND METABOLIC RESPONSES TO ACUTE HYPOGLYCAEMIA IN DIABETICS. Deacon SP, Karunanayake A, Barnett D *Br Med J* 2: 1255-7, 12 Nov 77 (Eng) DL/78APR188

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1.E.6.7 HYPOGLYCEMIA, METABOLISM

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1.E.6.9 HYPOGLYCEMIA, THERAPY

1.F DIABETES

1.F.1 ALLOXAN DIABETES (SEE SEC. 1.F.10.2)

1.F.2 DIABETES MELLITUS

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1.F.6 DIABETES COMPLICATIONS AND PATHOLOGY

1.F DIABETES

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1.F.8.2 DIABETES, DIAGNOSIS

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1.F.9.3.1 INSULIN, ADMINISTRATION AND DOSAGE

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1.F.9.4 DIABETES, ANTIDIABETICS AND THERAPY

1.F.9.4.1 ANTIDIABETICS

1.F.9.4.2 TOLBUTAMIDE

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1.F.9.4.4 PHENFORMIN

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1.F.9.7 DIABETES, RADIOGRAPHY

1.F.9.8 DIABETES, SURGERY

1.F.9.9 DIABETES, MORTALITY

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1.F.10 DIABETES, EXPERIMENTAL

1.F.10.1 DIABETES, CHEMICALLY INDUCED

1.F.10.2 ALLOXAN DIABETES

1.F.10.2.1 ALLOXAN DIABETES, BLOOD

1.F.10.2.2 ALLOXAN DIABETES, DRUG THERAPY

1.F.10.2.3 ALLOXAN DIABETES, ENZYMOLOGY

1.F.10.2.4 ALLOXAN DIABETES, METABOLISM

1.F.10.2.5 ALLOXAN DIABETES, PATHOLOGY

1.F.10.2.6 ALLOXAN DIABETES, PHYSIOPATHOLOGY

1.F.11 DIABETES, VETERINARY

1.F.12 DIABETES, HISTORY



SECTION 2. ENDOCRINOLOGY AND RELATED TOPICS

2.A ENDOCRINE PANCREAS

2.A.1 ISLETS (SEE SEC. 1.A)

2.A.2 INSULIN (SEE SEC. 1.C)

2.A.3 GLUCAGON (SEE SEC. 1.D)

2.B ADRENAL GLANDS

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2.B.1 ADRENAL CORTEX

2.B.2 ADRENAL CORTEX HORMONES

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2.B.2.1 GLUCOCORTICOIDS

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2.B.2.1.1 CORTISONE

2.B.2.1.2 HYDROCORTISONE

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2.C THYROID GLAND

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- THE EFFECT OF METHADONE ON HYPOPHYSEAL AND PERIPHERAL GLANDULAR HORMONES DURING WITHDRAWAL.** Kley HK, Oellerich M, Wiegmann W, Herrmann J, Rudorff KH, Nieschlag E, Kruksemper HL *Horm Metab Res* 9: 484-8, Nov 77 (Eng) DL/78APR321
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- DIFFERENTIAL EFFECTS OF L-DOPA AND APOMORPHINE ON GLUCAGON SECRETION IN MAN: EVIDENCE AGAINST CENTRAL DOPAMINERGIC STIMULATION OF GLUCAGON.** Lorenzi M, Tsalikian E, Bohannon NV, Gerich JE, Karam JH, Forsham PH *J Clin Endocrinol Metab* 45: 1154-8, Dec 77 (Eng) DL/78APR344
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- HORMONAL REGULATION OF SPERMIDINE SYNTHASE DURING THE DEVELOPMENT OF MOUSE MAMMARY EPITHELIUM IN VITRO.** Oka T, Perry JW, Kano K *Biochem Biophys Res Commun* 79: 979-86, 767 Dec 77 (Eng) DL/78APR562
- 2.E.2 PITUITARY HORMONES, POSTERIOR**
- COMPARATIVE EFFECTS OF ADRENALINE AND FELYPRESSIN (OCTAPRESSIN) ON CONSECUTIVE SECTIONS OF THE VASCULAR BED IN CANINE ADIPOSE TISSUE.** Burcher E, Olgart L, Gazelius B *Acta Physiol Scand* 100: 215-20, Jun 77 (Eng) *DL/78APR139
- THE MECHANISM OF ACTION OF POLYPEPTIDE HORMONES WITH SPECIAL REFERENCE TO INSULINS ACTION ON GLUCOSE TRANSPORT.** Glieman J, Sonne O *Clin Endocrinol (Oxf)* 7: 405-15, Nov 77 (Eng) [49 ref.] DL/78APR222
- EFFECTS OF DDAVP IN CRANIAL DIABETES INSIPIDUS AS COMPARED TO OTHER ANTIDIURETIC DRUGS.** Coculescu M, Antipa C, Cucu C *Endocrinologie* 15: 275-81, Oct-Dec 77 (Eng) DL/78APR477
- HYPOTHALAMO-PITUITARY-ADRENAL FUNCTION IN PITUITARY ADENOMA AND CRANIOPHARYNGIOMA. PART I: INSULIN TEST, LYSINE-VASOPRESSIN TEST, AND RAPID ACTH TEST.** Takeuchi J, Sugimoto T, Yoshimi T, Nanno M, Handa H *Surg Neurol* 8: 423-7, Dec 77 (Eng) DL/78APR482
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2.E.3 PITUITARY HORMONES, INTERMEDIATE

2.E.4 PITUITARY HORMONE RELEASING FACTORS

EFFECTS OF ACTINOMYCIN D ON THE RELEASE OF PROLACTIN AND GROWTH HORMONE FROM RAT PITUITARIES IN VITRO BY THYROTROPIN RELEASING HORMONE. Sato K, Yamamoto Y *Jpn J Fertil Steril* 22: 33-8, Apr 77 (Eng) *DL/78APR35

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2.E.5 HYPOPHYSSECTOMY

MAINTENANCE OF OBESITY FOLLOWING HYPOPHYSSECTOMY IN THE OBESSE-HYPERGLYCEMIC MOUSE (OB/OB). Plocher TA, Powley TL *Yale J Biol Med* 50: 291-300, May-Jun 77 (Eng) *DL/78APR126

2.E.6 PITUITARY DISORDERS

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[HYDROLYSIS AND CARBOHYDRATE ABSORPTION PROCESSES IN CHILDREN WITH HYPOTROPHY OF ALIMENTARY AND INFECTIOUS ORIGIN] Smilian IS, Loboda VF *Pediatr Akush Ginek* 16-7, Mar-Apr 77 (Ukr) *DL/78APR105

ELECTROCARDIOGRAM IN ENDOCRINE AND METABOLIC DISORDERS. Surawicz B, Mangiardi ML *Cardiovasc Clin* 8: 243-66, 1977 (Eng) [120 ref.] DL/78APR205

[CARBAMAZEPINE (TEGRETOL) IN MANAGEMENT OF 3 CASES WITH DIABETES INSIPIDUS. COMPARISON OF THE EFFECT WITH TRICHLORMETHIAZIDE, CHLORPROPAMIDE AND COMBINED USE (AUTHORS TRANSL.)] Jien CW, Tsai JH, Chen CY *J Formosan Med Assoc* 76: 713-26, Sep 77 (Chi) DL/78APR364

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LYMPHOID HYPOPHYSITIS IN A PATIENT WITH HYPOGLYCEMIC EPISODES. Gleason TH, Stebbins PL, Shanahan MF *Arch Pathol Lab Med* 102: 46-8, Jan 78 (Eng) DL/78APR547

2.F GONADS

2.F.1 OVARY

[INDICATIONS AND RESULTS OF INTERSTITIAL HYPOPHYSAL STEREO-GAMMATHERAPY IN THE TREATMENT OF DIABETIC RETINOPATHY] Debry G, Schaub C, Drouin P, Szikla G, Talairach J *Neurochirurgie* 23: 3-20, 15 Mar 77 (Fre) DL/78APR427

2.F.2 TESTIS

HORMONAL REGULATION OF THE SEMINIFEROUS TUBULE FUNCTION. Steinberger E *Curr Top Mol Endocrinol* 2: 337-52, 1975 (Eng) [52 ref.] *DL/78APR24

THE STRUCTURE AND FUNCTION OF GLYCOPROTEIN HORMONE RECEPTORS: GANGLIOSIDE INTERACTIONS WITH LU-TEINIZING HORMONE. Lee G, Aloj SM, Kohn LD *Biochem Biophys Res Commun* 77: 434-41, 11 Jul 77 (Eng) *DL/78APR158

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INTRACELLULAR COLLAGEN IN SMOOTH MUSCLE: THE FINE STRUCTURE OF THE ARTIFICIALLY OCCLUDED RAT ARTERY AND URETER, AND OF HUMAN VARICOSE AND ARTERIOSCLEROTIC VESSELS. Staudesand J *Beitr Pathol* 161: 187-93, Oct 77 (Eng) DL/78APR548

2.F.3 SEX HORMONES

2.F.3.1 ANDROGENS

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HORMONAL REGULATION OF INTRAOCULAR PRESSURE. Kass MA, Sears ML *Surv Ophthalmol* 22: 153-76, Nov-Dec 77 (Eng) DL/78APR484

2.F.3.2 ESTROGENS

RELEASE OF MAMMOTROPHIC ACTIVITY BY THE RAT PLACENTA. Peters JM, van Marle J, Njio KD, Rodiger GT, Spanjer W *Acta Endocrinol [Suppl] (Kbh)* 85: 1-60, 1977 (Eng) *DL/78APR136

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CHANGES OF HORMONAL STATUS IN YOUNG MICE BY RESTRICTED CALORIC DIET. RELATION TO LIFESPAN EXTENSION. PRELIMINARY RESULTS. Pierpaoli W *Experientia* 33: 1612-4, 15 Dec 77 (Eng) DL/78APR266

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[ADMINISTRATION OF HORMONES AND ENDOCRINE MODIFIERS TO PREGNANT WOMEN] Crosignani PG *Minerva Ginecol* 29: 739-43, Oct 77 (Ita) DL/78APR431

HORMONAL REGULATION OF INTRAOCULAR PRESSURE. Kass MA, Sears ML *Surv Ophthalmol* 22: 153-76, Nov-Dec 77 (Eng) DL/78APR484

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2.F.3.3 CORPUS LUTEUM AND PROGESTATIONAL HORMONES

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HORMONAL REGULATION OF INTRAOCULAR PRESSURE. Kass MA, Sears ML *Surv Ophthalmol* 22: 153-76, Nov-Dec 77 (Eng) DL/78APR484

2.F.3.3.2 PROGESTATIONAL HORMONES

RELEASE OF MAMMOTROPHIC ACTIVITY BY THE RAT PLACENTA. Peters JM, van Marle J, Njio KD, Rodiger GT, Spanjer W *Acta Endocrinol [Suppl] (Kbh)* 85: 1-60, 1977 (Eng) *DL/78APR136

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2.G OTHER ENDOCRINES AND RELATED TERMS

CHANGES OF HORMONAL STATUS IN YOUNG MICE BY RESTRICTED CALORIC DIET. RELATION TO LIFESPAN EXTENSION. PRELIMINARY RESULTS. Pierpaoli W *Experientia* 33: 1612-4, 15 Dec 77 (Eng) DL/78APR266

DIRECT EFFECTS OF PROGESTERONE ON RAT ISLETS OF LANGERHANS IN VIVO AND IN TISSUE CULTURE. Howell SL, Tyhurst M, Green IC *Diabetologia* 13: 579-83, Dec 77 (Eng) DL/78APR290

[ADMINISTRATION OF HORMONES AND ENDOCRINE MODIFIERS TO PREGNANT WOMEN] Crosignani PG *Minerva Ginecol* 29: 739-43, Oct 77 (Ita) DL/78APR431

2.F.3.4 CONTRACEPTIVES, ORAL

ABSENCE OF CAPILLARY MICROANGIOPATHY IN ORAL CONTRACEPTIVE USERS WITH GLUCOSE INTOLERANCE. Goldzieher JW, Villegas-Castrejon H, Cervantes A, Maqueo M, Siperstein MD *Obstet Gynecol* 51: 89-92, Jan 78 (Eng) DL/78APR434

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2.G OTHER ENDOCRINES AND RELATED TERMS

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HYPOKETONAEMIC EFFECT OF L-ALAMINE. SPECIFIC DECREASE IN BLOOD CONCENTRATIONS OF 3-HYDROXYBUTYRATE IN THE RAT. Ozand PT, Reed WD, Girard J, Hawkins RL, Collins RM Jr, Tildon JT, Cornblath M *Biochem J* 164: 557-64, 15 Jun 77 (Eng) *DL/78APR156

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2.G.2.1 GASTROINTESTINAL HORMONES

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GLUCAGON AND SECRETIN IN ASPIRIN-INDUCED EROSIIVE GASTRITIS [LETTER] Carmichael HA, Nelson L, Russel RI *Br Med J* 2: 1604, 17 Dec 77 (Eng) DL/78APR197

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ENDOCRINE CELLS IN OXYNTIC MUCOSA OF A DOG 5 YEARS AFTER PANCREATECTOMY. Ravazzola M, Baetens D, Engerman R, Kovacevic N, Vranic M, Orci L *Horm Metab Res* 9: 480-3, Nov 77 (Eng) DL/78APR320

2.G.2.2 PROTAGLANDINS

ENDOTOXIN INFLUENCE ON LIPOLYSIS IN ISOLATED HUMAN AND PRIMATE ADIPOCYTES. Hikawij-Yevich I, Spitzer JA *J Surg Res* 23: 106-13, Aug 77 (Eng) *DL/78APR88

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2.G.2.3 HORMONES, ECTOPIC

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2.G.2.4 PLACENTAL HORMONES

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HORMONAL REGULATION OF INTRAOCULAR PRESSURE. Kass MA, Sears ML *Surv Ophthalmol* 22: 153-76, Nov-Dec 77 (Eng) DL/78APR484

2.G.2.5 RELAXIN

RELAXIN HAS CONFORMATIONAL HOMOLGY WITH INSULIN. Bedarkar S, Turnell WG, Blundell TL, Schwabe C *Nature* 270: 449-51, 1 Dec 77 (Eng) DL/78APR422

2.G.2.6 JUVENILE HORMONES

2.G.3 CHROMAFFIN SYSTEM

THE BIOCHEMISTRY OF THE UPTAKE, STORAGE, AND RELEASE OF CATECHOLAMINES. Casey RF, Njus D, Radda GK, Seeley J, Sehr PA *Horiz Biochem Biophys* 3: 224-56, 1977 (Eng) [54 ref.] *DL/78APR46

2.G.4 PINEAL BODY

2.G.5 PITUITARY-ADRENAL SYSTEM

ABNORMAL REGULATION OF ADRENAL FUNCTION IN RATS WITH STREPTOZOTOCIN DIABETES. De Nicola AF, Fridman O, Del Castillo EJ, Foglia VG *Horm Metab Res* 9: 469-73, Nov 77 (Eng) DL/78APR318

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2.G OTHER ENDOCRINES AND RELATED TERMS

VASOPRESSIN TEST: DIAGNOSTIC INACCURACY IN EVALUATION OF HYPOTHALAMIC-PITUITARY-ADRENOCORTICAL AXIS. Leisti S, Perheentupa J *Acta Endocrinol (Kbh)* 87: 28-39, Jan 78 (Eng) DL/78APR510

2.G.6 SECRETORY RATE

SENSITIZED EFFECT OF PRESTIMULATION ON INSULIN RELEASE FROM THE PERFUSED RAT ISLETS WITH A SLOW-RISE GLUCOSE STIMULATION. Kobayashi K, Tsumura Y, Ise H, Kagawa S, Matsuoka A *Endocrinol Jpn* 24: 451-6, Oct 77 (Eng) DL/78APR255

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Diabetes Literature—Keyword Index

ABSORPTION

[HYDROLYSIS AND CARBOHYDRATE ABSORPTION PROCESSES IN CHILDREN WITH HYPOTROPHY OF ALIMENTARY AND INFECTIOUS ORIGIN] Smilian IS, Loboda VF *Pediatr Akush Ginekol* 16-7, Mar-Apr 77 (Ukr) *DL/78APR105

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ACEBUTOLOL

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ACHALASIA

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ACID BASE EQUILIBRIUM

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ACTH

SEE ADRENOCORTICOTROPIC HORMONE

ACTINOMYCIN D

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ADENINE NUCLEOTIDE TRANSPORT

REGULATION BY CALCIUM IONS OF PYRUVATE CARBOXYLATION, PYRUVATE

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ADENOMA, PITUITARY

HYPOTHALAMO-PITUITARY-ADRENAL FUNCTION IN PITUITARY ADENOMA AND CRANIOPHARYNGIOMA. PART I: INSULIN TEST, LYSINE-VASOPRESSIN TEST, AND RAPID ACTH TEST. Takeuchi J, Sugimoto T, Yoshimi T, Nanno M, Handa H *Surg Neurol* 8: 423-7, Dec 77 (Eng) DL/78APR482

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EVIDENCE THAT FATTY ACID SYNTHESIS IN THE INTERSCAPULAR BROWN ADIPOSE TISSUE OF COLD-ADAPTED RATS IS INCREASED IN VIVO BY INSULIN BY MECHANISMS INVOLVING PARALLEL ACTIVATION OF PYRUVATE DEHYDROGENASE AND ACETYL-COENZYME A CARBOXYLASE. McCormack JG, Denton RM *Biochem J* 166: 627-30, 15 Sep 77 (Eng) DL/78APR553

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ADRENAL CORTEX

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ADRENALINE

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ADRENOCORTICOTROPIC HORMONE

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ADVERSE REACTION

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AGE

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AGED

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AGRANULOCYTOSIS

ALLOPURINOL AND AGRANULOCYTOSIS [LETTER] Wilkinson DG *Lancet* 2: 1282-3, 17 Dec 77 (Eng) DL/78APR399

AIB

SEE AMINOISOBUTYRATE

L-ALANINE

HYPOKETONAEMIC EFFECT OF L-ALANINE. SPECIFIC DECREASE IN BLOOD CONCENTRATIONS OF 3-HYDROXYBUTYRATE IN THE RAT. Ozand PT, Reed WD, Girard J, Hawkins RL, Collins RM Jr, Tildon JT, Cornblath M *Biochem J* 164: 557-64, 15 Jun 77 (Eng) *DL/78APR156

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ALLOPURINOL

ALLOPURINOL

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ALLOXAN DIABETES

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ANALGESIA

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ARTERIAL HYPERTENSION

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SEE AMINE PRECURSOR UPTAKE DECARBOXYLATION

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ARTERIOVENOUS

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ATP

SEE ADENOSINE TRIPHOSPHATE

ATPASE

SEE ADENOSINE TRIPHOSPHATASE

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HIGH AFFINITY CYTOCHALASIN B BINDING TO RED CELL MEMBRANE PROTEINS

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CELL, ADIPOSE

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CRANIOPHARYNGIOMA

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[PRE-PROINSULIN, AN INSULIN PRECURSOR, SOON TO BE ISOLATED FROM BACTERIAL CULTURES] Domagk GF *Hippokrates* 48: 377-9, Nov 77 (Ger) DL/78APR339

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CYANOGEN BROMIDE

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CYCLIC AMP

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CYTOCHALASIN B BINDING

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DEHYDROGENASE, LACTATE

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DEHYDROGENASE, PYRUVATE

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DEOXYGLUCOSE

SUPRACHIASMATIC NUCLEUS: USE OF ¹⁴C-LABELED DEOXYGLUCOSE UPTAKE AS A FUNCTIONAL MARKER. Schwartz WJ, Gainer

Diabetes Literature—Keyword Index

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DESPENTAPEPTIDE

STRUCTURE AND ACTIVITY OF INSULIN, XV[1-5]. FURTHER EVIDENCE FOR THE IMPORTANCE OF ARGININE RESIDUE B22 IN THE ACTIVITY OF INSULIN. SEMISYNTHESIS OF DESPENTAPEPTIDE-(B23-30)-INSULINS VARIED IN B22 USING DESNOAPEPTIDE-(B22-30)-INSULIN AND TETRAPEPTIDES. Weitzel G, Bauer FU, Rehe Z. *Hoppe Seylers Z Physiol Chem* 358: 1573-82, Dec 77 (Eng) DL/78APR329

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DEXTROSE

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Cucu C. *Endocrinologie* 15: 275-81, Oct-Dec 77 (Eng) DL/78APR477

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DIET, CARBOHYDRATE

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DIET, CARBOHYDRATE

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SEE ELECTROCARDIOGRAM

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ENERGY METABOLISM

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FSH

SEE FOLLICLE STIMULATING HORMONE

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Diabetes Literature—Keyword Index

GENITAL

GENETIC ORIGIN OF DIABETES: RE-EVALUATION OF TWIN DATA [LETTER] Pyke DA, Theophanides CG, Tattersall RB *Lancet* 1: 464, 21 Aug 76 (Eng) DL/78APR390

GENITAL

[GESTONORONCAPRONATE AND CARBOHYDRATE METABOLISM DURING RADIOTHERAPY OF FEMALE PATIENTS SUFFERING FROM CANCER OF THE GENITALS (AUTHORS TRANSL)] Engelhardt W, Penning W, Nagy M *Med Klin* 72: 2077-80, 2 Dec 77 (Eng) DL/78APR414

GERMINATION

[PARTIAL PURIFICATION AND CHARACTERIZATION OF PROTEASE A OF GERMINATING VETCH SEEDS, HYDROLYZING NATIVE RESERVE PROTEINS] Bulmaga VP, Shutov AD *Biokhimiia* 42: 1983-9, Nov 77 (Rus) DL/78APR179

GESTATIONAL DIABETES

SERUM INSULIN AND PLASMA GLUCAGON IN HUMAN PREGNANCY ON THE PATHOGENESIS OF GESTATIONAL DIABETES. A REVIEW. Kuhl C *Acta Diabetol Lat* 14: 1-8, Jan-Apr 77 (Eng) [50 ref.] DL/78APR501

PLASMA INSULIN RESPONSE FOLLOWING INTRAVENOUS GLUCOSE IN GESTATIONAL DIABETICS. Muck BR, Hommel G *Arch Gynaekol* 223: 259-68, 29 Nov 77 (Eng) DL/78APR545

GESTONORONCAPRONATE

[GESTONORONCAPRONATE AND CARBOHYDRATE METABOLISM DURING RADIOTHERAPY OF FEMALE PATIENTS SUFFERING FROM CANCER OF THE GENITALS (AUTHORS TRANSL)] Engelhardt W, Penning W, Nagy M *Med Klin* 72: 2077-80, 2 Dec 77 (Eng) DL/78APR414

GHOST

EFFECT OF PHYSICAL TRAINING ON CONTROL MECHANISMS OF LIPOLYSIS IN RAT FAT CELL GHOSTS. Shepherd RE, Sembrich WL, Green HE, Gollnick PD *J Appl Physiol* 42: 884-8, Jun 77 (Eng) *DL/78APR50

CYTOSOLALASIN B BINDING SITES AND GLUCOSE TRANSPORT CARRIER IN HUMAN ERYTHROCYTE GHOSTS. Jung CY, Rampal AL *J Biol Chem* 252: 5456-63, 10 Aug 77 (Eng) *DL/78APR61

GLAND, MAMMARY

HORMONAL REGULATION OF THE NUMBER AND ACTIVITY OF RIBOSOMES IN MAMMARY GLAND EXPLANTS OF MICE. Anderson LD, Rillema JA *Horm Metab Res* 9: 513-7, Nov 77 (Eng) DL/78APR324

CONTROL OF AMINO ACID TRANSPORT IN THE MAMMARY GLAND OF THE PREGNANT MOUSE. Lobitz CJ, Neville MC *J Supramol Struct* 6: 353-62, 1977 (Eng) DL/78APR383

GLAUCOMA, OPEN-ANGLE

PREVALENCE OF SENILE CATARACT, DIABETIC RETINOPATHY, SENILE MACULAR DEGENERATION, AND OPEN-ANGLE GLAUCOMA IN THE FRAMINGHAM EYE STUDY. Kini MM, Leibowitz HM, Colton T, Nickerson RJ, Ganley J, Dawber TR *Am J Ophthalmol* 85: 28-34, Jan 78 (Eng) DL/78APR524

GLI

SEE GLUCAGON-LIKE IMMUNOREACTIVITY

GLIBORNURIDE

BINDING OF SULFONYLUREA DERIVATIVES TO BOVINE SERUM ALBUMIN: PART I. BINDING OF SPC-703, TOLBUTAMIDE, GLIBORNURIDE AND GLIPIZIDE. Wojcikowski C, Szlabowicz D *Pol J Pharmacol Pharm* 29: 469-75, Sep-Oct 77 (Eng) DL/78APR445

GLICLAZIDE

STUDIES ON THE HYPOGLYCAEMIC ACTION OF GLICLAZIDE, A SULPHONYL-UREA DRUG [PROCEEDINGS] Furman BL, Mushah MO *J Pharm Pharmacol* 29 suppl: 55p, Dec 77 (Eng) DL/78APR370

GLIPIZIDE

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GLOMERULAR

RENAL GLOMERULAR COLLAGEN SYNTHESIS IN STREPTOZOTOCIN DIABETES. REVERSAL OF INCREASED BASEMENT MEMBRANE SYNTHESIS WITH INSULIN THERAPY. Cohen MP, Khalifa A *Biochim Biophys Acta* 500: 395-404, 22 Dec 77 (Eng) DL/78APR178

GLOMERULAR BASEMENT MEMBRANE

DIABETIC MICROANGIOPATHY. I. CURRENT STATUS OF THE CHEMISTRY AND METABOLISM OF THE GLOMERULAR BASEMENT MEMBRANE. Reddi AS *Metabolism* 27: 107-24, Jan 78 (Eng) [97 ref.] DL/78APR409

THE IMMUNOHISTOPATHOLOGY OF GLOMERULAR ANTIGENS. II. THE GLOMERULAR BASEMENT MEMBRANE, ACTOMYOSIN, AND FIBROBLAST SURFACE ANTIGENS IN NORMAL, DISEASED, AND TRANSPLANTED HUMAN KIDNEYS. Scheinman JI, Fish AJ, Matas AJ, Michael AF *Am J Pathol* 90: 71-88, Jan 78 (Eng) DL/78APR525

GLOMERULOPATHY

DIABETES AND GLOMERULOPATHIES [LETTER] Lindeman RD *Arch Intern Med* 138: 163-4, Jan 78 (Eng) DL/78APR542

GLUCAGON

AMNIOTIC FLUID INSULIN AND GLUCAGON IN NORMAL PREGNANCY AND PREGNANCY COMPLICATED BY RHESUS ISOIMMUNIZATION. Gerlini G, Fallucca F, Pachi A, Bresadola M, Ossicini C, Russo A, Sbraccia C *Br J Obstet Gynaecol* 84: 819-23, Nov 77 (Eng) DL/78APR167

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GLUCAGON AND SECRETIN IN ASPIRIN-INDUCED EROSIVE GASTRITIS [LETTER] Car-

michael HA, Nelson L, Russel RI *Br Med J* 2: 1604, 17 Dec 77 (Eng) DL/78APR197

[REINVESTIGATION OF HYPERGLYCEMIC RESPONSE TO GLUCAGON AND THE EFFECT OF GLUCAGON ON BLOOD CHOLESTEROL AND TRIGLYCERIDE CONCENTRATIONS. (2) CHANGES IN LIVER DISEASE (AUTHORS TRANSL)] Okuno G, Kuroda K *Nippon Naibunpi Gakkai Zasshi* 52: 1202-11, 20 Dec 76 (Jpn) DL/78APR270

MORPHOMETRIC QUANTITATION OF THE PANCREATIC INSULIN, GLUCAGON, AND SOMATOSTATIN-POSITIVE CELL POPULATIONS IN NORMAL AND ALLOXAN-DIABETIC RATS. McEvoy RC, Hegre OD *Diabetes* 26: 1140-6, Dec 77 (Eng) DL/78APR281

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GLUCAGON, INSULIN AND INSULIN/GLUCAGON MOLAR RATIO AT BIRTH IN NORMAL INFANTS AND IN INFANTS WITH RH HAEMOLYTIC DISEASE OF THE NEWBORN. Fallucca F, Gerlini G, Russo A, Sbraccia C *Horm Metab Res* 9: 518, Nov 77 (Eng) DL/78APR325

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GLUCAGON AND GROWTH HORMONE SECRETION IN INSULIN-TREATED DIABETICS: EFFECTS OF ADDED SULFONYLUREAS. Fallucca F, Iavicoli M, Menzinger G, Mirabella C, Andreani D *Metabolism* 27: 5-11, Jan 78 (Eng) DL/78APR411

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BY THE LUNDH TEST IN DOGS. Gyr K, Kayasch L, Stalder GA, Rittmann WW, Girard J *Am J Vet Res* 38: 1949-52, Dec 77 (Eng) DL/78APR534

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GLUCAGON-INDUCED

INHIBITION BY SOMATOSTATIN OF GLUCAGON-INDUCED GLUCOSE RELEASE FROM THE ISOLATED PERFUSED RAT LIVER. Sacks H, Waligora K, Matthews J, Pimstone B *Endocrinology* 101: 1751-9, Dec 77 (Eng) DL/78APR251

GLUCAGON, INTRAVENOUS

PREVALENCE OF RESIDUAL B-CELL FUNCTION IN INSULIN-TREATED DIABETICS EVALUATED BY THE PLASMA C-ETIDE RESPONSE TO INTRAVENOUS GLUCAGON. Hendriksen C, Faber OK, Drejer J, Binder C *Diabetologia* 13: 615-9, Dec 77 (Eng) DL/78APR296

GLUCAGON LIKE IMMUNOREACTIVITY

A POSSIBLE ROLE FOR GUT GLI: AN INHIBITOR OF LIPOLYSIS. Krug E, Mialhe P *Horm Metab Res* 9: 465-9, Nov 77 (Eng) DL/78APR317

GLUCAGON, PLASMA

INSUPPRESSIBILITY OF PLASMA GLUCAGON BY ORALLY OR INTRAVENOUSLY ADMINISTERED GLUCOSE IN DIABETES MELLITUS. Kurahachi H, Seino Y, Ikeda M, Sakurai H, Yoshimi T, Imura H *Endocrinol Jpn* 24: 413-9, Oct 77 (Eng) DL/78APR253

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GLUCAGON RELEASE

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GLUCAGON RESPONSE

THE EFFECT OF SHORT-TERM INTRAVENOUS INSULIN ADMINISTRATION ON THE GLUCAGON RESPONSE TO A CARBOHYDRATE MEAL IN ADULT ONSET AND JUVENILE TYPE DIABETES. Aydin I, Raskin P, Unger RH *Diabetologia* 13: 629-36, Dec 77 (Eng) DL/78APR298

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GLUCAGON SECRETION

DIFFERENTIAL EFFECTS OF L-DOPA AND APOMORPHINE ON GLUCAGON SECRETION IN MAN: EVIDENCE AGAINST CENTRAL DOPAMINERGIC STIMULATION OF GLUCAGON. Lorenzi M, Tsalkian E, Bohannon NV, Gerich JE, Karam JH, Forsham PH *J Clin Endocrinol Metab* 45: 1154-8, Dec 77 (Eng) DL/78APR344

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GLUCOCORTICOID

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GLUCONEOGENESIS

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GLUCOSE

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KINETICS OF EARLY INSULIN RESPONSE BY THE ISOLATED AND PERFUSED RAT PANCREAS. SUGGESTION FOR TWO DIFFERENT ACTIONS OF GLUCOSE ON THE INSULIN RELEASING PROCESS. Vague P, Ramahandridona G, Di Campo C, Mahmoud F *Horm Metab Res* 9: 453-6, Nov 77 (Eng) DL/78APR315

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EFFECT OF MUTAROTATED AND ANOMERIC GLUCOSE GRADIENTS ON THE SECRETION OF INSULIN FROM PERFUSED ISLETS OF LEAN AND OBESE MICE [PROCEEDINGS] Newton DF, Atkins TW, Matty AJ *J Endocrinol* 75: 50p-51p, Dec 77 (Eng) DL/78APR362

[COMPARATIVE STUDIES DURING POSTOPERATIVE INFUSION OF GLUCOSE

D-GLUCOSE

OR A COMBINATION OF GLUCOSE, FRUCTOSE AND XYLITOL OVER FIVE DAYS (AUTHORS TRANSL.) Goschke H, Leutenegger AF, Mannhart H, Stutz K, Werdenberg D, Allgower M *Klin Wochenschr* 55: 115-9, 15 NOV 77 (Ger) DL/78APR381

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[GLUCOSE IN THE NEWBORN. A KINETIC STUDY (AUTHORS TRANSL.)] Stock GJ, Gladtko E *Monatsschr Kinderheilkd* 125: 935-7, Nov 77 (Ger) DL/78APR417

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D-GLUCOSE

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GLUCOSE ANALOGUE

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CHANGES IN THE PROPORTIONS OF PLASMA INSULIN, PROINSULIN AND A HIGHER-MOLECULAR-WEIGHT INSULIN DURING PRE- AND POST-OPERATIVE GLUCOSE-INFUSION TESTS. Mangnall D, Giddings AE, Lafferty HH, Clark RG *Clin Sci Mol Med* 53: 543-50, Dec 77 (Eng) DL/78APR239

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HEPATITIS, VIRAL

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HEXOSE

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HGH

SEE GROWTH HORMONE

HIGH DENSITY LIPOPROTEIN

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Diabetes Literature—Keyword Index

HLA

HLA

SEE HUMAN LEUKOCYTE ANTIGEN

HOFFMAN REFLEX

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Diabetes Literature—Keyword Index

HYPERGLYCEMIA

LD Biochem Biophys Res Commun 77: 434-41, 11 Jul 77 (Eng) *DL/78APR158

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HORMONE SECRETION

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HORMONE, THYROTROPIN-RELEASING

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HUMAN LEUKOCYTE ANTIGEN

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HYPERGLYCEMIA

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Diabetes Literature—Keyword Index

HYPERGLYCEMIC MOUSE

HYPERGLYCEMIC MOUSE

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HYPERGLYCEMIC RESPONSE

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HYPERGLYCEROLEMIA, FAMILIAL

FAMILIAL HYPERGLYCEROLEMIA. Rose CI, Haines DS *J Clin Invest* 61: 163-70, Jan 78 (Eng) DL/78APR347

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INSULIN, PANCREATIC

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INSULIN, PLASMA

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INSULIN PRECURSOR

[PRE-PROINSULIN, AN INSULIN PRECURSOR, SOON TO BE ISOLATED FROM BACTERIAL CULTURES] Domagk GF *Hippokrates* 48: 377-9, Nov 77 (Ger) DL/78APR339

INSULIN RECEPTOR

THE MONOCYTE AS A MODEL FOR THE STUDY OF INSULIN RECEPTORS IN MAN. Beck-Nielsen H, Pedersen O, Kragballe K, Sorensen NS *Diabetologia* 13: 563-9, Dec 77 (Eng) DL/78APR288

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SENSITIZED EFFECT OF PRESTIMULATION ON INSULIN RELEASE FROM THE PERFUSED RAT ISLETS WITH A SLOW-RISE GLUCOSE STIMULATION. Kobayashi K, Tsumura Y, Ise H, Kagawa S, Matsuoaka A *Endocrinol Jpn* 24: 451-6, Oct 77 (Eng) DL/78APR255

[THE PHYSIOLOGICAL ROLE OF SOMATOSTATIN IN INSULIN RELEASE—ENHANCED INSULIN RELEASE FROM RAT ISLETS PRE-TREATED WITH ANTI-SOMATOSTATIN SERUM (AUTHORS TRANSL)] Murakami K, Taniguchi H, Hasegawa M, Kobayashi T, Watanabe Y *Nippon Naibunpi Gakkai Zasshi* 53: 1140-7, 20 Oct 77 (Jpn) DL/78APR271

SUBCELLULAR LOCALIZATION OF THE ALTERATIONS IN PHOSPHATIDYLINOSITOL METABOLISM FOLLOWING GLUCOSE-INDUCED INSULIN RELEASE FROM RAT PANCREATIC ISLETS. Clements RS Jr, Rhoten WB, Starnes WR *Diabetes* 26: 1109-16, Dec 77 (Eng) DL/78APR275

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INSULIN REQUIREMENT

INSULIN REQUIREMENT

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INSULIN RESPONSE

POSTPRANDIAL PLASMA-GLUCOSE AND -INSULIN RESPONSES TO DIFFERENT COMPLEX CARBOHYDRATES. Crapo PA, Reaven G, Olefsky J *Diabetes* 26: 1178-83, Dec 77 (Eng) DL/78APR285

REDUCED INSULIN RESPONSE IN DIABETES—A QUANTITATIVE OR A QUALITATIVE PROBLEM Lohmann D, Ellorhaoui M, Verloren HJ *Horm Metab Res* 9: 444-7, Nov 77 (Eng) DL/78APR313

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INSULIN RESPONSE, EARLY

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INSULIN SECRETION

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EFFECT OF MUTAROTATED AND ANOMERIC GLUCOSE GRADIENTS ON THE SECRETION

OF INSULIN FROM PERFUSED ISLETS OF LEAN AND OBESE MICE [PROCEEDINGS] Newton DF, Atkins TW, Matty AJ *J Endocrinol* 75: 50p-51p, Dec 77 (Eng) DL/78APR362

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DOES ADRENERGIC ACTIVITY SUPPRESS INSULIN SECRETION DURING SURGERY A CLINICAL EXPERIMENT WITH HALOTHANE ANESTHESIA. Aarimaa M, Syyalahti E, Ovaska J *Ann Surg* 187: 68-72, Jan 78 (Eng) DL/78APR538

INSULIN SECRETORY RESPONSE

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INSULIN THERAPY

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INSULIN-TREATED

PREVALENCE OF RESIDUAL B-CELL FUNCTION IN INSULIN-TREATED DIABETICS EVALUATED BY THE PLASMA C-ETIDE RESPONSE TO INTRAVENOUS GLUCAGON. Hendriksen C, Faber OK, Drejer J, Binder C *Diabetologia* 13: 615-9, Dec 77 (Eng) DL/78APR296

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INTRAPERITONEAL

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INTRAVENOUS FEEDING

TOTAL INTRAVENOUS FEEDING OF CALVES. Hoffsis GF, Gingerich DA, Sherman DM, Bruner RR Jr *J Am Vet Med Assoc* 171: 67-70, 1 Jul 77 (Eng) *DL/78APR48

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INTRAVENOUS GLUCOSE

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INTRAVENOUS GLUCOSE LOAD

THE EFFECT OF URINARY GLUCOSE EXCRETION ON THE PLASMA GLUCOSE CLEARANCES AND PLASMA INSULIN RESPONSES TO INTRAVENOUS GLUCOSE LOADS IN UNANAESTHETIZED DOGS. Kaneko JJ, Mattheuws D, Rotliers RP, Van Der Stock J, Vermeulen A *Acta Endocrinol (Kbh)* 87: 133-8, Jan 78 (Eng) DL/78APR509

INTRAVENOUS INFUSION

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IRI

SEE IMMUNOREACTIVE INSULIN

ISCHEMIA

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ISCHEMIC HEART

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ISLET CELL

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LH

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LHRH

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PORTACAVAL SHUNT

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POTASSIUM

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PREDNISONE

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Diabetes Literature—Keyword Index

SUGAR

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Diabetes Literature—Keyword Index

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SYNTHESIS, LIPID

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SYNTHETASE

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T CELL, SUPPRESSOR

SUPPRESSOR T CELL FUNCTION IN DIABETES MELLITUS [LETTER] Horowitz SD, Borchering W, Bargman GJ *Lancet* 2: 1291, 17 Dec 77 (Eng) DL/78APR400

TAPEWORM

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TAPEWORM, RAT (HYMENOLEPIS DIMINUTA)

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[CARBAMAZEPINE (TEGRETOL) IN MANAGEMENT OF 3 CASES WITH DIABETES INSIPIDUS. COMPARISON OF THE EFFECT WITH TRICHLORMETHIAZIDE, CHLORPROPAMIDE AND COMBINED USE (AUTHORS TRANSL)] Jien CW, Tsai JH, Chen CY *J Formosan Med Assoc* 76: 713-26, Sep 77 (Chi) DL/78APR364

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TEST

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TESTOSTERONE

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TESTOSTERONE

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THERAPEUTIC

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THERAPY

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THIAMINE

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Diabetes Literature—Keyword Index

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TISSUE, PANCREATIC

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TOCOPHEROL

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TRAINING

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TRANSPLANTATION, RENAL

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SEE VASOACTIVE INTESTINAL PEPTIDE

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GLUCOSE TOLERANCE TEST; HUMAN; HYPERGLYCEMIA (familial & genetic); HL-A ANTIGENS (analysis); MALE; MIDDLE AGE; PEDIGREE; U.S. GOVT SUPPORTED, N.I.H.).

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ALANINE (metabolism); ANIMAL; ANIMALS, NEWBORN; BLOOD SUGAR (metabolism); BODY WEIGHT; DIAPHRAGM; FATTY ACIDS, NONESTERIFIED (metabolism); FEEDING BEHAVIOR; GLUCONEOGENESIS; GLYCOGEN (metabolism); GROWTH DISORDERS (metabolism); HYPOTHALAMUS (physiology); LIPIDS (metabolism); LIVER (metabolism); MALE; MUSCLES (metabolism); PROTEINS (metabolism); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.)

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Dias CS

[CLINICAL EVALUATION OF THE TREAT-
MENT OF DIABETIC COMA USING SMALL
INTRAMUSCULAR DOSES OF INSULIN] Dias
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ADOLESCENCE; ADULT; AGED;
COMPARATIVE STUDY; DIABETIC COMA
(drug therapy); DRUG EVALUATION; ENGLISH
ABSTRACT; FEMALE; HUMAN; INJECTIONS,
INTRAMUSCULAR; INSULIN (administration &
dosage, therapeutic use); MALE; MIDDLE AGE.

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[RECENT DEVELOPMENT IN THE DIABETES-
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KALLIKREIN-KININ SYSTEM IN THE REGU-
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HYPOXIA. Dietze G, Wicklmayr M,
Mayer L *Hoppe Seylers Z Physiol Chem* 358: 633-
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ACETOACETATES (blood); ADULT; ANOXIA
(metabolism); BLOOD SUGAR (metabolism);
HUMAN; KALLIKREIN (physiology);
KALLIKREIN-TRYPSIN INACTIVATOR
(pharmacodynamics); KININS (physiology);
LACTATES (blood); MUSCLES (blood supply,
metabolism); OXYGEN (blood); REGIONAL
BLOOD FLOW.

Dilman VM

METABOLIC IMMUNODEPRESSION WHICH
INCREASES THE RISK OF CANCER. Dilman

VM *Lancet* 2: 1207-9, 10 Dec 77 (Eng)
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AGE FACTORS; CELL TRANSFORMATION;
NEOPLASTIC (metabolism); FATTY ACIDS,
NONESTERIFIED (immunology, metabolism);
FEMALE; HUMAN; HYPERCHOLESTEREMIA
(immunology); IMMUNITY, CELLULAR;
IMMUNOSUPPRESSION (adverse effects);
INSULIN (blood); NEOPLASMS (etiology);
OBESITY (immunology); PREGNANCY; RISK;
STRESS (immunology).

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CTIN, LH, FSH AND IRI IN SERUM THROUGH
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[EPIDEMIOLOGICAL STUDY OF DIABETES IN
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[CYCLIC AMP CLEARANCE AND CYCLIC
AMP EXCRETION UNDER LOW CAR-
BOHYDRATE DIETS] Schonborn J, Heim K,
Jaeger H, Rabast U, Ditschuneit H *Verh Dtsch
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CIRRHOSIS] Schonborn J, Scheller W, Rabast
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Dollinger HC

[EFFECT OF DEPOT SOMATOSTATIN ON GAS-
TRIN AND STOMACH SECRETION IN NOR-
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ZOLLINGER-ELLISON SYNDROME] Raptis S,
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Domagk GF

[PRE-PROINSULIN, AN INSULIN PRECURSOR,
SOON TO BE ISOLATED FROM BACTERIAL
CULTURES] Domagk GF *Hippokrat* 48: 377-
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ESCHERICHIA COLI (analysis); GENETIC
INTERVENTION; PROINSULIN (isolation &
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MELLITUS (immunology); DIABETES
MELLITUS, JUVENILE (immunology);
FLUORESCENT ANTIBODY TECHNIC;
GLUCAGON; HUMAN; HL-A ANTIGENS
(analysis); IMMUNITY, CELLULAR; INSULIN
(immunology); ISLANDS OF LANGERHANS
(immunology); LYMPHOCYTES (immunology);
PANCREAS (immunology); RECEPTORS,
INSULIN (metabolism); SOMATOTROPIN
RELEASE INHIBITING HORMONE).

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MAN—A NEW METHOD FOR QUANTITA-
TIVE ANALYSIS. Dorfler H, Wolfram G,
Zollner N *Res Exp Med (Berl)* 171: 229-41, 15
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ADULT; DOSE-RESPONSE RELATIONSHIP,
DRUG; GLIBORNURIDE (pharmacodynamics);
HUMAN; INSULIN (analysis, blood); MALE;
TIME FACTORS.

MUSCLE CAPILLARY BASEMENT MEM-
BRANE THICKNESS IN LIPOATROPHIC
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MATERIALS AND INSULIN USED FOR
DIABETIC CHILDREN] Rouwe C, van Damme-
Lombaerts R, Drayer NM, Zijlstra JB, Dankert J
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ADOLESCENCE; ADULT; FATTY ACIDS,
NONESTERIFIED (blood); FEMALE; HUMAN;
INSULIN (blood); MALE; MIDDLE AGE;
OBESITY (blood); PHENYTOIN
(pharmacodynamics); SOMATOTROPIN (blood);
11-HYDROXYCORTICOSTEROIDS (blood).

Drejer J

PREVALENCE OF RESIDUAL B-CELL FUNC-
TION IN INSULIN-TREATED DIABETICS
EVALUATED BY THE PLASMA C-ETIDE
RESPONSE TO INTRAVENOUS GLUCAGON.
Hendriksen C, Faber OK, Drejer J, Binder C
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Drouin P

[INDICATIONS AND RESULTS OF INTER-
STITIAL HYPOPHYSEAL STEREO-GAM-
MATHETAPY IN THE TREATMENT OF
DIABETIC RETINOPATHY] Debry G, Schaub

C, Drouin P, Szikla G, Talairach J *Neurochirurgie* 23: 3-20, 15 Mar 77 (Fre) DL/78APR427

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ROLE OF GASTROINTESTINAL HORMONES IN THE RESPONSE TO MASSIVE RESECTION OF THE SMALL BOWEL. Dsa AA, Buchanan KD *Gut* 18: 877-81, Nov 77 (Eng) DL/78APR310

ANIMAL; DOGS; GASTRIC JUICE (secretion); GASTRINS (blood); GASTROINTESTINAL HORMONES (blood); GASTROINTESTINAL MOTILITY; GLUCAGON (blood); INSULIN (blood); INTESTINE, SMALL (surgery); PANCREATIC HORMONES (blood); SECRETIN (blood).

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ADULT; DIABETES MELLITUS (physiopathology); ENGLISH ABSTRACT; EVOKED POTENTIALS; FEMALE; H-REFLEX; HUMAN; MALE; MOTOR NEURONS (physiology); NEURAL CONDUCTION; RECRUITMENT (NEUROLOGY) (radiation effects); REFLEX, MONOSYNAPTIC; REFLEX, TENDON.

Dulak NC

EFFECTS OF MULTIPLICATION STIMULATING ACTIVITY (MSA) ON AIB TRANSPORT INTO MYOBLAST AND MYOTUBE CULTURES. Merrill GF, Florini JR, Dulak NC *J Cell Physiol* 93: 173-82, Nov 77 (Eng) DL/78APR342

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PANCREATIC BETA CELL TOXICITY BY STREPTOZOTOCIN ANOMERS. Rossini AA, Lick AA, Dulin WE, Cahill GF Jr *Diabetes* 26: 1120-4, Dec 77 (Eng) DL/78APR277

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Duncan LJ

PLASMA BETA-THROMBOGLOBULIN IN DIABETES MELLITUS. Campbell IW, Dawes J, Fraser DM, Pepper DS, Clarke BF, Duncan LJ, Cash JD *Diabetes* 26: 1175-7, Dec 77 (Eng) DL/78APR284

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CELL MEMBRANE (physiology); ENDOCYTOSIS; MODELS, BIOLOGICAL; PINOCYTOSIS; SURFACE PROPERTIES.

Durrington PN

THE EFFECT OF A LOW-CHOLESTEROL, HIGH-POLYUNSATURATE DIET ON SERUM LIPID LEVELS, APOLIPOPROTEIN B LEVELS AND TRIGLYCERIDE FATTY ACID COMPOSITION. Durrington PN, Bolton CH, Hartog M, Angelinetta R, Emmett P, Furniss S *Atherosclerosis* 27: 465-75, Aug 77 (Eng) *DL/78APR160

ADULT; APOLIPOPROTEINS (blood); CHOLESTEROL, DIETARY; DIETARY FATS; FATS, UNSATURATED; FATTY ACIDS (blood); HUMAN; LINOLEIC ACIDS (blood);

LIPOPROTEINS, LDL (blood); LIPOPROTEINS, VLDL (blood); MALE; MIDDLE AGE; TRIGLYCERIDES (blood).

Eaton PR

MODULATION OF THE CATABOLIC ACTIVITY OF GLUCAGON BY ENDOGENOUS INSULIN SECRETION IN OBESE MAN. Schade DS, Eaton PR *Acta Diabetol Lat* 14: 62-72, Jan-Apr 77 (Eng) DL/78APR506

Edelstone DI

LECTITHIN/SPHINGOMYELIN RATIO IN AMNIOTIC FLUID AND ITS VALUE FOR THE PREDICTION OF NEONATAL RESPIRATORY DISTRESS SYNDROME IN PREGNANT DIABETIC WOMEN. Mueller-Heubach E, Caritis SN, Edelstone DI, Turner JH *Am J Obstet Gynecol* 130: 28-34, 1 Jan 78 (Eng) DL/78APR520

Eden S

EFFECTS OF APOMORPHINE AND CLONIDINE ON RAT PLASMA GROWTH HORMONE AFTER PRETREATMENT WITH RESERPINE AND ELECTROCONVULSIVE SHOCKS. Eden S, Modigh K *Brain Res* 129: 379-84, 1 Jul 77 (Eng) *DL/78APR12

ANIMAL; APOMORPHINE (pharmacodynamics); CLONIDINE (pharmacodynamics); ELECTROSHOCK; MALE; RATS; RESERPINE (pharmacodynamics); SOMATOTROPIN (blood).

Ehrhart LA

STIMULATION OF AORTIC PROTEIN SYNTHESIS IN EXPERIMENTAL RABBIT ATHEROSCLEROSIS. Ehrhart LA, Holderbaum D *Atherosclerosis* 27: 477-85, Aug 77 (Eng) *DL/78APR161

ANIMAL; AORTA (metabolism, pathology); ARTERIES (metabolism); ARTERIOSCLEROSIS (metabolism); ATHEROSCLEROSIS (metabolism, pathology); CHOLESTEROL ESTERS (blood); CHOLESTEROL ESTERS (metabolism); CHOLESTEROL (blood); CHOLESTEROL (metabolism); COLLAGEN (biosynthesis); DIET, ATHEROGENIC; ELASTIN (biosynthesis); MALE; MUSCLE, SMOOTH (metabolism); PROTEINS (biosynthesis); RABBITS; TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.)

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NUCLEOSIDE TRANSPORT IN MAMMALIAN CELL MEMBRANES: A SPECIFIC INHIBITORY MECHANISM OF HIGH AFFINITY PROBES. Eilam Y, Cabantchik ZI *J Cell Physiol* 92: 185-201, Aug 77 (Eng) *DL/78APR66

BINDING SITES; BINDING, COMPETITIVE; BIOLOGICAL TRANSPORT, ACTIVE (drug effects); CELL LINE; CELL MEMBRANE (metabolism); DEXTRAN (pharmacodynamics); HYDROXYMERCURIBENZAZOATES (pharmacodynamics); INOSINE (analogs & derivatives); KINETICS; MODELS, BIOLOGICAL; STRUCTURE-ACTIVITY RELATIONSHIP, SULFHYDRYL REAGENTS (pharmacodynamics); THIOINOSINE (analogs & derivatives, pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); URIDINE (metabolism).

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COUPLING OF HORMONE RECEPTORS TO ADENYLATE CYCLASE OF DIFFERENT CELLS BY CELL FUSION. Schramm M, Orly J, Eimerl S, Korner M *Nature* 268: 310-3, 28 Jul 77 (Eng) *DL/78APR101

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THE EFFECT OF STREPTOZOTOCIN-DIABETES ON POST-ISCHAEMIC FLUID LOSS. Little RA, Elebute EA *Bibl Anat* 475-6, 1977 (Eng) DL/78APR550

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HYPERTRIGLYCERIDAEMIA AND HYPERURICAEMIA [LETTER] Elkeles RS, Chalmers RA *Lancet* 2: 252, 30 Jul 77 (Eng) *DL/78APR92

ADULT; BLOOD SUGAR (analysis); DIETARY FATS (administration & dosage); GLUCOSE (administration & dosage); HUMAN; HYDROXYBUTYRATES (blood); MALE; PARENTERAL FEEDING; TRIGLYCERIDES (blood); URIC ACID (blood).

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REDUCED INSULIN RESPONSE IN DIABETES--A QUANTITATIVE OR A QUALITATIVE PROBLEM Lohmann D, Ellorhaoui M, Verlohren HJ *Horm Metab Res* 9: 444-7, Nov 77 (Eng) DL/78APR313

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THE EFFECT OF A LOW-CHOLESTEROL, HIGH-POLYUNSATURATE DIET ON SERUM LIPID LEVELS, APOLIPOPROTEIN B LEVELS AND TRIGLYCERIDE FATTY ACID COMPOSITION. Durrington PN, Bolton CH, Hartog M, Angelinetta R, Emmett P, Furniss S *Atherosclerosis* 27: 465-75, Aug 77 (Eng) *DL/78APR160

Engelhardt W

[GESTONORONCAPRONATE AND CARBOHYDRATE METABOLISM DURING RADIOTHERAPY OF FEMALE PATIENTS SUFFERING FROM CANCER OF THE GENITALS (AUTHORS TRANSL)] Engelhardt W, Penning W, Nagy M *Med Klin* 72: 2077-80, 2 Dec 77 (Eng) DL/78APR414

CARBOHYDRATES (metabolism); ENGLISH ABSTRACT; FEMALE; GESTONORONE CAPROATE (metabolism, therapeutic use); GLUCOSE TOLERANCE TEST; GYNECOLOGIC NEOPLASMS (drug therapy, metabolism, radiotherapy); HUMAN; MIDDLE AGE; PREGNANCY.

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ENDOCRINE CELLS IN OXYNTIC MUCOSA OF A DOG 5 YEARS AFTER PANCREATECTOMY. Ravazzola M, Baetens D, Engerman R, Kovacevic N, Vranic M, Orci L *Horm Metab Res* 9: 480-3, Nov 77 (Eng) DL/78APR320

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[THE POSSIBLE ROLE OF HUMAN LIVER IN GASTRIC CATABOLISM: SIGNIFICANCE OF ITS PARALLEL DETERMINATION IN PORTAL AND PERIPHERAL BLOOD] Escobar Jimenez F, Raptis S, Loeprecht H, Rosenthal J, Pfeiffer EF *Rev Clin Exp* 146: 355-7, 30 Sep 77 (Spa) DL/78APR459

ADULT; BLOOD SUGAR (metabolism); COMPARATIVE STUDY; DIETARY CARBOHYDRATES (metabolism); DIETARY PROTEINS (metabolism); ENGLISH ABSTRACT; FEMALE; GASTRINS (blood); HUMAN; INSULIN (metabolism); LIVER (metabolism); MALE; MIDDLE AGE; PORTAL SYSTEM.

Escobar-Jimenez F

[EFFECT OF DEPOT SOMATOSTATIN ON GASTRIC AND STOMACH SECRETION IN NOR-

Escobar-Jimenez F

MAL SUBJECTS AND IN PATIENTS WITH ZOLLINGER-ELLISON SYNDROME] Raptis S, Dollinger HC, Escobar-Jimenez F, Pfeiffer EF *Verh Dtsch Ges Inn Med* 82 pt 1: 1006-9, 1976 (Ger) *DL/78APR127

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PHYSIOLOGICAL INVESTIGATION OF MALE DIABETICS COMPLAINING OF IMPOTENCE [PROCEEDINGS] Bennett T, Evans DF, Hosking DJ *J Physiol (Lond)* 272: 19P-20P, Oct 77 (Eng) DL/78APR372

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HYMENOLEPIS DIMINUTA: DETERMINATION OF UNIDIRECTIONAL UPTAKE RATES FOR NONELECTROLYTES ACROSS THE SURFACE EPITHELIAL MEMBRANE. Podesta RB, Stallard HE, Evans WS, Lussier PE, Jackson DJ, Metrick DF *Exp Parasitol* 42: 300-17, Aug 77 (Eng) *DL/78APR28

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[EFFECT AND SEVERITY OF OBESITY ON SERUM LIPIDS AND SERUM URIC ACID] Ewald W *Verh Dtsch Ges Inn Med* 82 pt 1: 820-1, 1976 (Ger) *DL/78APR129

FEMALE; HUMAN; HYPERLIPEMIA (etiology); LIPIDS (blood); MALE; OBESITY (complications, metabolism); URIC ACID (blood).

Ewing DJ

PERIPHERAL AND AUTONOMIC NERVE FUNCTION IN DIABETIC KETOACIDOSIS. Campbell IW, Fraser DM, Ewing DJ, Balda VS, Harrower AB, Murray A, Neilson JM, Clarke BF *Lancet* 2: 167-9, 24 Jul 76 (Eng) DL/78APR392

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PREVALENCE OF RESIDUAL B-CELL FUNCTION IN INSULIN-TREATED DIABETICS EVALUATED BY THE PLASMA C-ETIDE RESPONSE TO INTRAVENOUS GLUCAGON. Hendriksen C, Faber OK, Drejer J, Binder C *Diabetologia* 13: 615-9, Dec 77 (Eng) DL/78APR296

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A NEW INTERPRETATION OF THE INSULIN TEST VALIDATED AND THEN COMPARED WITH THE BURGE TEST. Maybury NK, Russell RC, Faber RG, Hobsley M *Br J Surg* 64: 673-6, Sep 77 (Eng) DL/78APR182

Faccio E

AUTONOMIC NEUROPATHY AND PAINLESS MYOCARDIAL INFARCTION IN DIABETIC PATIENTS. HISTOLOGIC EVIDENCE OF THEIR RELATIONSHIP. Faerman I, Faccio E, Milei J, Nunez R, Jadzinsky M, Fox D, Rapaport M *Diabetes* 26: 1147-58, Dec 77 (Eng) DL/78APR282

Faerman I

AUTONOMIC NEUROPATHY AND PAINLESS MYOCARDIAL INFARCTION IN DIABETIC PATIENTS. HISTOLOGIC EVIDENCE OF THEIR RELATIONSHIP. Faerman I, Faccio E, Milei J, Nunez R, Jadzinsky M, Fox D, Rapaport M *Diabetes* 26: 1147-58, Dec 77 (Eng) DL/78APR282

ADULT; AFFERENT PATHWAYS; AGED; DIABETIC NEUROPATHIES (complications, pathology); FEMALE; HEART CONDUCTION SYSTEM (pathology); HUMAN; MALE; MIDDLE AGE; MYOCARDIAL INFARCT (complications, pathology); MYOCARDIUM (pathology); PAIN (pathology).

Fain JN

INSULIN STIMULATION OF PARTICULATE, LOW KM ADENOSINE 3,5-MONOPHOSPHATE PHOSPHODIESTERASE ACTIVITY IN FAT CELLS OF THE OBESE-

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UNCOUPLERS AND THE MOLECULAR MECHANISM OF UNCOUPLING IN MITOCHONDRIA. Kessler RJ, Vande Zande H, Tyson CA, Blondin GA, Fairfield J, Glasser P, Green DE *Proc Natl Acad Sci USA* 74: 2241-5, Jun 77 (Eng) *DL/78APR110

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AMNIOTIC FLUID INSULIN AND GLUCAGON IN NORMAL PREGNANCY AND PREGNANCY COMPLICATED BY RHESUS ISOIMMUNIZATION. Gerlini G, Fallucca F, Pachi A, Bresadola M, Ossicini C, Russo A, Sbraccia C *Br J Obstet Gynaecol* 84: 819-23, Nov 77 (Eng) DL/78APR167

GLUCAGON, INSULIN AND INSULIN/GLUCAGON MOLAR RATIO AT BIRTH IN NORMAL INFANTS AND IN INFANTS WITH RH HAEMOLYTIC DISEASE OF THE NEWBORN. Fallucca F, Gerlini G, Russo A, Sbraccia C *Horm Metab Res* 9: 518, Nov 77 (Eng) DL/78APR325

ERYTHROBLASTOSIS, FETAL (blood); GLUCAGON (blood); HUMAN; INFANT, NEWBORN; INSULIN (blood).

GLUCAGON AND GROWTH HORMONE SECRETION IN INSULIN-TREATED DIABETICS: EFFECTS OF ADDED SULFONYLUREAS. Fallucca F, Iavicoli M, Menzinger G, Mirabella C, Andreani D *Metabolism* 27: 5-11, Jan 78 (Eng) DL/78APR411

ADULT; ARGININE (diagnostic use); DIABETES MELLITUS, JUVENILE (drug therapy, metabolism); FEMALE; GLIBENCLAMIDE (diagnostic use); GLUCAGON (blood, secretion); HUMAN; INSULIN (therapeutic use); MALE; MIDDLE AGE; SOMATOTROPIN (blood, secretion).

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BENEFICIAL EFFECT OF INSULIN AND GLUCAGON IN FULMINANT MURINE VIRAL HEPATITIS [LETTER] Farivar M, Wands JR, Isselbacher KJ, Bucher NL *Lancet* 1: 696-7, 27 Mar 76 (Eng) DL/78APR385

ANIMAL; DRUG SYNERGISM; DRUG THERAPY, COMBINATION; GLUCAGON (administration & dosage, therapeutic use); HEPATITIS, VIRAL, ANIMAL (drug therapy); INSULIN (administration & dosage, therapeutic use); MICE.

Farman AG

ATROPHIC LESIONS OF THE TONGUE AMONG DIABETIC OUTPATIENTS: THEIR INCIDENCE AND REGRESSION. Farman AG *J Oral Pathol* 6: 396-400, Nov 77 (Eng) DL/78APR366

ADOLESCENCE; ADULT; AGED; ATROPHY; DIABETES MELLITUS (complications, pathology); FEMALE; FOLLOW-UP STUDIES; HUMAN; MALE; MIDDLE AGE; TONGUE DISEASES (etiology); TONGUE (pathology).

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EFFECT OF HYPERPROLACTINEMIA ON PITUITARY-ADRENAL FUNCTION. Feldman JM, Plonk JW *Horm Res* 9: 1-11, 1978 (Eng) DL/78APR328

ADENOMA, CHROMOPHOBE (blood); ADULT; BRAIN DISEASES (blood); CASE REPORT; CORTICOTROPIN (diagnostic use); FEMALE; HUMAN; HYPOTHALAMUS; INSULIN (diagnostic use); MALE; METYRAPONE (diagnostic use); MIDDLE AGE; PITUITARY NEOPLASMS (blood); PITUITARY-ADRENAL FUNCTION TESTS; PITUITARY-ADRENAL SYSTEM (physiology); PROLACTIN (blood); U.S. GOVT SUPPORTED, N.I.H. ; U.S. GOVT SUPPORTED, NON-N.I.H.)

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SERUM GLUCOSE LEVELS AND ALCOHOL CONSUMPTION HABITS IN A LARGE POPULATION. Jose Gerard M, Klatsky AL, Siegel AB, Friedman GD, Feldman R *Diabetes* 26: 780-5, Aug 77 (Eng) *DL/78APR37

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(metabolism); CLINICAL RESEARCH; COGNITION (drug effects); DOUBLE-BLIND METHOD; DRUG INTERACTIONS; FEMALE; FRUCTOSE (blood, pharmacodynamics); GLUCOSE (pharmacodynamics); HUMAN; LACTATES (blood); MALE; MOTOR SKILLS (drug effects); PERCEPTION (drug effects); REACTION TIME (drug effects).

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ADULT; CASE REPORT; CONVULSIONS (chemically induced, complications); FEMALE; HUMAN; HYPERGLYCAEMIA (chemically induced, complications); NALIDIXIC ACID (adverse effects).

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ADULT; AGED; BLOOD SUGAR (metabolism); BODY WEIGHT; DIURNAL RHYTHM; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN ANTIBODIES (analysis); INSULIN (pharmacodynamics, secretion); MALE; MIDDLE AGE.

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THE EFFECT OF A LOW-CHOLESTEROL, HIGH-POLYUNSATURATE DIET ON SERUM LIPID LEVELS, APOLIPOPROTEIN B LEVELS AND TRIGLYCERIDE FATTY ACID COMPOSITION. Durrington PN, Bolton CH, Hartog M, Angelinetta R, Emmett P, Furniss S *Atherosclerosis* 27: 465-75, Aug 77 (Eng) *DL/78APR160

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HYPERINSULINISM (complications); LIPIDS (metabolism); RATS; TIME FACTORS; TRIGLYCERIDES (blood); U.S. GOVT SUPPORTED, N.I.H.).

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ANIMAL; ANIMALS, NEWBORN; BLOOD SUGAR (analysis); BODY WEIGHT; DIABETES MELLITUS, EXPERIMENTAL (metabolism, therapy); FOLLOW-UP STUDIES; GLUCOSE TOLERANCE TEST; INSULIN (blood); ISLANDS OF LANGERHANS (transplantation); PERITONEUM (surgery); RABBITS; RATS; STREPTOZOTOCIN; TRANSPLANTATION, HETEROLOGOUS.

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ADULT; DIABETES MELLITUS (diagnosis, occurrence); FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; ITALY; MALE; MIDDLE AGE.

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ANIMAL; EDTA (pharmacodynamics); ENGLISH ABSTRACT; GLUTARATES (metabolism); MALE; MITOCHONDRIA, LIVER (metabolism); NOREPINEPHRINE (pharmacodynamics); OXIDATIVE PHOSPHORYLATION (drug effects); OXYGEN CONSUMPTION (drug effects); PYRUVATES (metabolism); RATS; SERUM ALBUMIN, BOVINE (pharmacodynamics); STIMULATION, CHEMICAL; SUCCINATES (metabolism).

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ADULT; DIABETES MELLITUS (drug therapy, immunology); FEMALE; HUMAN; IGE (analysis); IGG (analysis); INSULIN ANTIBODIES (analysis); INSULIN RESISTANCE; INSULIN (therapeutic use); MIDDLE AGE.

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ADRENERGIC BETA RECEPTOR BLOCKADERS (pharmacodynamics); ANIMAL;

BLOOD SUGAR (metabolism); CATS;
EPINEPHRINE (pharmacodynamics); FEMALE;
IN VITRO; ISOPROTERENOL (antagonists &
inhibitors, pharmacodynamics); LACTATES
(blood); LIVER (drug effects, metabolism);
MALE; PANCREATICTOMY;
PHENOXYBENZAMINE (pharmacodynamics);
PHENYLEPHRINE (pharmacodynamics);
RECEPTORS, ADRENERGIC (physiology);
STIMULATION, CHEMICAL;
SYMPATHOMIMETICS (pharmacodynamics);
UNITED STATES GOVERNMENT
SUPPORTED, N.I.H.).

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IMIDE: EVIDENCE FOR A PROTEIN ACTIVA-
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STUDY; CYCLOHEXIMIDE
(pharmacodynamics); DACTINOMYCIN
(pharmacodynamics); DEOXYGLUCOSE
(metabolism); DOSE-RESPONSE
RELATIONSHIP, DRUG; GLUCOSE
(metabolism); HEXOKINASE (metabolism);
LEUCINE (metabolism); MALE; PROSTATE
(metabolism); PROTEINS (biosynthesis);
PYROMYCIN (pharmacodynamics); RATS; RNA
(biosynthesis); STANOLONE (metabolism);
TESTOSTERONE (pharmacodynamics);
URIDINE (metabolism).

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ADMINISTRATION, ORAL; ADULT; AGED;
BLOOD SUGAR (metabolism); DIABETES
MELLITUS (blood); FEMALE; GLUCAGON
(blood, secretion); GLUCOSE TOLERANCE
TEST; GLUCOSE (administration & dosage);
HUMAN; INJECTIONS, INTRAVENOUS;
MALE; MIDDLE AGE; PANCREAS (secretion).

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RESPONSE TO GLUCAGON AND THE EF-
FECT OF GLUCAGON ON BLOOD
CHOLESTEROL AND TRIGLYCERIDE CON-
CENTRATIONS. (2) CHANGES IN LIVER DIS-
EASE (AUTHORS TRANSL.) Okuno G, Kuroda
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WEIGHT PERSONS] Lacatis D, Burcoveanu C,
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ADULT; BACTERIURIA (etiology); ENGLISH
ABSTRACT; FEMALE; HUMAN; MALE;
OBESITY IN DIABETES (complications);
OBESITY (complications).

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COSE IN HUMAN ERYTHROCYTES. Lacko I,
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Wittke B. *Lacko I J Cell Physiol* 92: 257-63, Aug
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ANESTHETICS, LOCAL (metabolism,
pharmacodynamics); BINDING, COMPETITIVE;
BIOLOGICAL TRANSPORT, ACTIVE (drug
effects); ERYTHROCYTES (drug effects,
metabolism); GLUCOSE (metabolism); HUMAN;
HYDROGEN-ION CONCENTRATION
(physiology); KINETICS; LIDOCAINE
(pharmacodynamics); PROCAINE
(pharmacodynamics); TETRACAINE
(metabolism, pharmacodynamics).

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CHARACTERIZATION OF THE UPTAKE OF
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AND CAFFEINE IN ISOLATED PANCREATIC
ISLETS AND THEIR EFFECT ON D-GLU-
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BIGUANIDES (blood); BLOOD SUGAR;
DIABETES MELLITUS (drug therapy);
DIABETIC COMA (drug therapy, etiology);
FEMALE; HUMAN; HYPERGLYCEMIC
HYPEROSMOLAR NONKETOTIC COMA (drug
therapy, etiology, metabolism);
HYPOGLYCEMIC AGENTS (adverse effects,
therapeutic use); LACTATES (blood); MALE;
PREGNANCY; REVIEW; SULFONYLUREA
COMPOUNDS (adverse effects,
pharmacodynamics, therapeutic use).

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ANIMAL; BLOOD SUGAR (analysis);
DIABETES MELLITUS (etiology, pathology);
DISEASE MODELS, ANIMAL; FEMALE;
GLYCOSURIA; GUINEA PIGS;
HYDROXYBUTYRATE DEHYDROGENASE
(metabolism); KIDNEY GLOMERULUS
(ultrastructure); MALE; PANCREAS (secretion,
ultrastructure); REMISSION; RODENT
DISEASES (etiology, pathology).

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P-ENOLPYRUVATE CARBOXYKINASE FER-
ROACTIVATOR. DISTRIBUTION, AND THE
INFLUENCE OF DIABETES AND STARVA-
TION. MacDonald MJ, Bentle LA, Lardy HA. *J
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[STUDY OF THE EFFECTIVENESS OF USING
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TENT DURING PHYSICAL LOADS IN AN EX-
PERIMENT ON RATS] Laricheva KA, Ialovaia
NI, Smirnov PV, Azizbekian GA. *Vopr Pitani* 40-
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ANIMAL; BLOOD SUGAR (analysis); BODY
WEIGHT; CREATINE (urine); CREATININE
(urine); DIET; DIETARY PROTEINS
(administration & dosage); ENGLISH
ABSTRACT; EXERTION; LACTATES (blood);
MALE; NITROGEN (urine); ORGAN WEIGHT;
PROTEIN DEFICIENCY (metabolism,
physiopathology); PYRUVATES (blood); RATS;
SWIMMING; TIME FACTORS.

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AND INSULIN RESPONSE TO ORAL GLU-
COSE TOLERANCE TEST IN SHORT LEAN
CHILDREN. Karp M, Shachar M, Reshef A,
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PANCREATIC TUMOURS. Larsson LI,
Virchow Arch [Pathol Anat] 376: 209-19, 25
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GASTRINS (analysis); GLUCAGON (analysis);
HUMAN; HYPERPLASIA (classification);
INSULIN (analysis); ISLANDS OF
LANGERHANS (pathology); PANCREATIC
NEOPLASMS (analysis, pathology); PEPTIDES
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HORMONE (analysis).

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ADDISON'S DISEASE (metabolism); ADRENAL
CORTX (physiology); ADRENAL GLAND
DISEASES (metabolism); CARBOHYDRATES
(metabolism); CORTICOTROPIN (physiology);
DIABETES MELLITUS (metabolism);
GLUCOCORTICOIDS (pharmacodynamics);
HUMAN; REVIEW.

Lauger P

TRANSPORT KINETICS OF DIPICRYLAMINE
THROUGH LIPID BILAYER MEMBRANES.
EFFECTS OF MEMBRANE STRUCTURE.

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BETA-BLOCKING DRUGS IN DIABETES [LETTER] Lawrence JR, Campbell BC, Whiting B *Br Med J* 2: 1541, 10 Dec 77 (Eng) DL/78APR195
ADRENERGIC BETA RECEPTOR BLOCKADERS (therapeutic use); DIABETES MELLITUS (drug therapy); HUMAN; PROPRANOLOL (therapeutic use).

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DEFECTIVE BLOOD GLUCOSE COUNTER-REGULATION IN DIABETICS IS A SELECTIVE FORM OF AUTONOMIC NEUROPATHY. Campbell LV, Kraegen EW, Lazarus L *Br Med J* 2: 1527-9, 10 Dec 77 (Eng) DL/78APR194

Lazarus NR

REVERSAL OF STREPTOZOTOCIN-INDUCED DIABETES IN RATS BY INTRAPERITONEAL IMPLANTATION OF ENCAPSULATED NEONATAL RABBIT PANCREATIC TISSUE. Gates RJ, Lazarus NR *Lancet* 2: 1257-9, 17 Dec 77 (Eng) DL/78APR398

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PSYCHOLOGIC MANAGEMENT OF CHILDREN WITH DIABETES MELLITUS. Tomm KM, McArthur RG, Leahey MD *Clin Pediatr (Phila)* 16: 1151-5, Dec 77 (Eng) DL/78APR235

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THE STRUCTURE AND FUNCTION OF GLYCOPROTEIN HORMONE RECEPTORS: GANGLIOSIDE INTERACTIONS WITH LU-TEINIZING HORMONE. Lee G, Aloj SM, Kohn LD *Biochem Biophys Res Commun* 77: 434-41, 11 Jul 77 (Eng) *DL/78APR158
ANIMAL; BINDING; COMPETITIVE; CELL MEMBRANE (drug effects, metabolism); GANGLIOSIDES (pharmacodynamics); KINETICS; LH (metabolism); MALE; RATS; RECEPTORS, HORMONE (drug effects, metabolism); TESTIS (metabolism).

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UNABSORBABLE CARBOHYDRATES AND DIABETES: DECREASED POST-PRANDIAL HYPERGLYCAEMIA. Jenkins DJ, Goff DV, Leeds AR, Alberti KG, Wolever TM, Gassull MA, Hockaday TD *Lancet* 2: 172-4, 24 Jul 76 (Eng) DL/78APR393

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EFFECT OF PHOSPHATE OMISSION ON ARGinine-INDUCED INSULIN AND GLUCAGON RELEASE BY THE ISOLATED PERFUSED RAT PANCREAS. Campillo JE, Luyckx AS, Torres MD, Lefebvre PJ *FEBS Lett* 84: 141-3, 1 Dec 77 (Eng) DL/78APR268

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INSULIN AND LIVER SIZE AND FUNCTION [LETTER] Leiberman DP, Guest J, Blumgart LH *Lancet* 1: 1298, 12 Jun 76 (Eng) DL/78APR389
ANIMAL; ATROPHY; DOGS; INJECTIONS, INTRAVENOUS; INSULIN (administration & dosage); LIVER CIRCULATION; LIVER (blood supply, metabolism, pathology); PORTAL VEIN.

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ADOLESCENCE; ADULT; CHILD; CHILD, PRESCHOOL; CORTICOTROPIN (deficiency, diagnostic use); EVALUATION STUDIES; HUMAN; HYDROCORTISONE (blood, secretion); HYPOPITUITARISM (diagnosis, physiopathology); HYPOTHALAMO-HYPOPHYSAL SYSTEM (physiopathology, secretion); INFANT; INSULIN (diagnostic use); PITUITARY-ADRENAL SYSTEM (physiopathology, secretion); SOMATOTROPIN (deficiency); VASOPRESSIN (diagnostic use).

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ADOLESCENCE; ATTITUDE TO HEALTH; CHILD; DIABETES MELLITUS, JUVENILE (psychology); FEMALE; HUMAN; MALE; PARENT-CHILD RELATIONS; SOCIAL ENVIRONMENT.

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DOSE-RESPONSE STUDIES ON THE INHIBITORY EFFECT OF THYROID HORMONES ON INSULIN SECRETION IN THE RAT. Lenzen S *Metabolism* 27: 81-8, Jan 78 (Eng) DL/78APR413
ANIMAL; CHOLESTEROL (blood); DOSE-RESPONSE RELATIONSHIP, DRUG; GLUCOSE (pharmacodynamics); INSULIN (secretion); MALE; PANCREAS (drug effects, secretion); PERFUSION; RATS; THYROXINE (pharmacodynamics); TRIODOTHYRONINE (pharmacodynamics).

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ADVERSE REACTIONS IN CHANGING FROM PHENFORMIN THERAPY [LETTER] Leonard R, Robinson RS *JAMA* 239: 190, 16 Jan 78 (Eng) DL/78APR374
AGED; ARRHYTHMIA (chemically induced); CASE REPORT; HUMAN; HYPERHIDROSIS (chemically induced); HYPOGLYCEMIA (chemically induced); MALE; PHENFORMIN (therapeutic use); TACHYCARDIA (chemically induced); TOLAZAMIDE (adverse effects, therapeutic use); UNCONSCIOUSNESS (chemically induced).

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SALBUTAMOL-INDUCED KETOACIDOSIS [LETTER] Leopold D, McEvoy A *Br Med J* 2: 1152-3, 29 Oct 77 (Eng) DL/78APR185
ACIDOSIS (chemically induced); ALBUTEROL (adverse effects); ASTHMA (drug therapy); CASE REPORT; FEMALE; HUMAN; HYPERGLYCEMIA (chemically induced); KETOSIS (chemically induced); MIDDLE AGE.

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NUTRITION AND DIET. PART 3: MANAGEMENT OF ADULT OBESE PATIENTS. Leslie J *Nurs Mirror* 145: 21-3, 14 Jul 77 (Eng) *DL/78APR106
ADULT; DIET, REDUCING; HUMAN; OBESITY (diet therapy).

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[EFFECT OF THE QUALITY CHARACTERISTICS OF THE FATTY COMPONENT OF THE DIET ON THE FATTY ACID MAKEUP OF THE ERYTHROCYTIC AND THROMBOCYTIC MEMBRANES IN HEALTHY PERSONS] Pokrovskii AA, Levachev MM, Lvovich NA, Korf II, Braun MB *Vopr Pitani* 12-7, May-Jun 77 (Rus) *DL/78APR124

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ANIMAL; BIOLOGICAL TRANSPORT, ACTIVE (drug effects); CAFFEINE (metabolism, pharmacodynamics); GLUCOSE (metabolism); IN VITRO; ISLANDS OF LANGERHANS (drug effects, metabolism); KINETICS; MALE; RATS; THEOPHYLLINE (metabolism, pharmacodynamics); U.S. GOVT SUPPORTED, N.I.H.).

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ANIMAL; FEMALE; HYPOPHYSECTOMY; MALE; MICE; MICE, OBESSE (physiology); PITUITARY GLAND (physiology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. .

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ADULT; BLOOD PLATELETS (analysis); CELL MEMBRANE (analysis); CHOLESTEROL (blood); DIET; DIETARY FATS (metabolism); DIETARY FATS (administration & dosage); ENGLISH ABSTRACT; ERYTHROCYTE MEMBRANE (analysis); ERYTHROCYTES (analysis); FATTY ACIDS (analysis); HUMAN; LIPIDS (blood); LIPOPROTEINS (blood); MALE; MIDDLE AGE; PHOSPHOLIPIDS (blood); TIME FACTORS.

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ADAPTATION, OCULAR; ADULT; AGED; COLOR BLINDNESS (etiology); COMPARATIVE STUDY; DARK ADAPTATION; DIABETIC RETINOPATHY (etiology, physiopathology); ELECTROOCULOGRAPHY;

Ramsay WJ

ELECTRORETINOGRAPHY; FUNDUS FLUORESCENCE PHOTOGRAPHY; HUMAN; LIGHT; MIDDLE AGE; REMISSION; SCOTOMA (etiology); U.S. GOVT SUPPORTED, N.I.H. ; VISUAL ACUITY.

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ASCORBIC ACID (therapeutic use); CARBOHYDRATES (metabolism); DIABETES MELLITUS (drug therapy); DOSE-RESPONSE RELATIONSHIP, DRUG; ENGLISH ABSTRACT; HUMAN; LIPIDS (metabolism).

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MEMBRANE (metabolism); ERYTHROCYTES (metabolism); FRUCTOSEDIPHOSPHATE ALDOLASE (blood); GLYCERALDEHYDEPHOSPHATE DEHYDROGENASE (blood); HUMAN; LACTATE DEHYDROGENASE (blood); NAD (blood); OSMOLAR CONCENTRATION; PHENANTHROLINES (pharmacodynamics); PROBENECID (pharmacodynamics); PYRUVATES (blood); SALICYLATES (pharmacodynamics); STILBENES (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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ADENOSINE TRIPHOSPHATASE (blood); ADENOSINE TRIPHOSPHATE (blood); CALCIUM (blood); COMPARATIVE STUDY; ERYTHROCYTE MEMBRANE (drug effects, enzymology, metabolism); ERYTHROCYTES (enzymology); ETHYLMALAEIMIDE (pharmacodynamics); HUMAN; HYDROLYSIS; MEMBRANE LIPIDS (blood); ORGANOPHOSPHORUS COMPOUNDS (blood); PHOSPHATASES (blood); PHOSPHOLIPASE (pharmacodynamics); PHOSPHOPROTEINS (blood); RATS; SARCOPLASMIC RETICULUM (enzymology).

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ADENOSINE TRIPHOSPHATASE (blood); ADENOSINE TRIPHOSPHATE (blood); COMPARATIVE STUDY; ERYTHROCYTE MEMBRANE (drug effects, enzymology, metabolism); ERYTHROCYTES (enzymology); ETHYLMALAEIMIDE (pharmacodynamics); HUMAN; MAGNESIUM (blood); ORGANOPHOSPHORUS COMPOUNDS (blood); OUABAIN (pharmacodynamics); PHOSPHATES (blood); PHOSPHOLIPASE (pharmacodynamics); POTASSIUM (blood); SODIUM (blood); STIMULATION, CHEMICAL.

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Diabetes Literature—Author Index

ELECTROPHORESIS, POLYACRYLAMIDE GEL; KINETICS; LEUCINE (metabolism); MALE; MEMBRANE PROTEINS (analysis); METHYLGLUCOSIDES (metabolism); PHOTOLYSIS; PROTEIN BINDING; RATS; SPECTROPHOTOMETRY, ULTRAVIOLET; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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ADOLESCENCE; ALKALINE PHOSPHATASE (metabolism); CHILD; DIABETES MELLITUS, JUVENILE (complications); ENGLISH ABSTRACT; GLYCOGEN (metabolism); HUMAN; MOUTH MUCOSA (enzymology); MUCOPOLYSACCHARIDES (metabolism); PERIDONTAL DISEASES (enzymology); RUTIDONITUM (enzymology).

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ADULT; AGED; ARTERIES (pathology); DIABETES MELLITUS (complications, pathology); DIABETIC ANGIOPATHIES (pathology); HUMAN; IMPOTENCE (etiology); MALE; MIDDLE AGE; PENIS (blood supply, pathology).

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ANIMAL; DOSE-RESPONSE RELATIONSHIP, DRUG; GLUCAGON (pharmacodynamics); GLUCOSE (metabolism); HUMAN; IN VITRO; KINETICS; LIVER (drug effects, metabolism); MALE; PERFUSION; RATS; SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); THEOPHYLLINE (pharmacodynamics).

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ADULT; C-PEPTIDE (blood); DIABETES MELLITUS (blood); FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (blood); LACTATES (blood); MALE; PEPTIDES (blood).

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EFFECTS OF ACTINOMYCIN D ON THE RELEASE OF PROLACTIN AND GROWTH HORMONE FROM RAT PITUITARIES IN VITRO BY THYROTROPIN RELEASING HORMONE. Sato K, Yamamoto Y *Jpn J Feril Steril* 22: 33-8, Apr 77 (Eng) *DL/78APR35

ANIMAL; DACTINOMYCIN (pharmacodynamics); IN VITRO; MALE; PITUITARY GLAND (secretion); PITUITARY GLAND, ANTERIOR (secretion); PROLACTIN (secretion); RATS; SOMATOTROPIN (secretion); THYROTROPIN RELEASING HORMONE (pharmacodynamics).

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ANALGESICS (metabolism); ANTI-INFLAMMATORY AGENTS (metabolism); ANTIBIOTICS (metabolism); ANTICOAGULANTS (metabolism); ANTICONVULSANTS (metabolism); CYCLOPHOSPHAMIDE (metabolism); DRUGS (metabolism); FEMALE; HORMONES (metabolism); HUMAN; INFANT NUTRITION; INFANT, NEWBORN; IODIDES (metabolism); MALE; METHOTREXATE (metabolism); MILK, HUMAN (metabolism); NARCOTICS (metabolism); PROPRANOLOL (metabolism); PSYCHOTROPIC DRUGS (metabolism); REVIEW; SULFONAMIDES (metabolism); THEOPHYLLINE (metabolism); THIOURACIL (metabolism); TOLBUTAMIDE (metabolism).

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ADULT; BLOOD SUGAR (analysis); FATTY ACIDS, NONESTERIFIED (blood); FEMALE; GLUCAGON (blood, pharmacodynamics); HUMAN; HYDROXYBUTYRATES (blood); INSULIN (blood); MALE; OBESITY (blood); TRIGLYCERIDES (blood).

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REGULATION OF GLUCONEOGENESIS AND KETOGENESIS DURING REST AND EXERCISE IN DIABETIC SUBJECTS AND NORMAL MEN. Sestoft L, Trap-Jensen J, Lyngsoe J, Clausen JP, Holst JJ, Nielsen SL, Rehfeld JF, Schaffalitzky de Muckadell OS *Clin Sci Mol Med* 53: 411-8, Nov 77 (Eng) DL/78APR238

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ANIMAL; GLIBENCLAMIDE (pharmacodynamics); GLUCOSE (pharmacodynamics); IN VITRO; INSULIN (metabolism, secretion); ISLANDS OF LANGERHANS (drug effects, metabolism);

Diabetes Literature—Author Index

PROINSULIN (biosynthesis); RATS; TIME FACTORS; TOLBUTAMIDE (pharmacodynamics).

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EFFECTS OF DIABETES AND VITAMIN D-DEPLETION ON DUODENAL AND ILEAL CALCIUM TRANSPORT IN THE RAT. Schneider LE, Wilson HD, Schedl HP *Acta Diabetol Lat* 14: 18-25, Jan-Apr 77 (Eng) DL/78APR502

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THE IMMUNOHISTOPATHOLOGY OF GLOMERULAR ANTIGENS. II. THE GLOMERULAR BASEMENT MEMBRANE, ACTOMYOSIN, AND FIBROBLAST SURFACE ANTIGENS IN NORMAL, DISEASED, AND TRANSPLANTED HUMAN KIDNEYS. Scheinman JJ, Fish AJ, Matas AJ, Michael AF *Am J Pathol* 90: 71-88, Jan 78 (Eng) DL/78APR525

ACTOMYOSIN (metabolism); ANTIGENS (analysis); BASEMENT MEMBRANE (immunology); DIABETIC NEPHROPATHIES (immunology); FIBROBLASTS (immunology); HUMAN; KIDNEY DISEASES (immunology); KIDNEY GLOMERULUS (immunology, metabolism); KIDNEY (transplantation); TRANSPLANTATION, HOMOLOGOUS (transplantation); U.S. GOVT SUPPORTED, N.I.H.).

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ADULT; CHOLECYSTOKININ (blood, secretion); DEPRESSION, CHEMICAL; FEMALE; HUMAN; MALE; OILS (diagnostic use); SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics).

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THE EFFECT OF GLUCOSE ORAL ADMINISTRATION ON HYPERAMMONEMIA IN CIRRHOTICS. Schlienger JL, Imler M *Clin Chim Acta* 82: 61-7, 2 Jan 78 (Eng) DL/78APR221

AMMONIA (blood); ARTERIES; GLUCOSE (diagnostic use); HUMAN; INSULIN (blood); KINETICS; LIVER CIRRHOSIS, ALCOHOLIC (blood); VEINS.

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ADULT; AGED; DIABETES MELLITUS (drug therapy, metabolism); DICLOFENAC (therapeutic use); DRUG INTERACTIONS; ENGLISH ABSTRACT; FEMALE; HUMAN; MALE; MIDDLE AGE; PHENYLACETATES (therapeutic use); RHEUMATISM (drug therapy); SULFONYLUREA COMPOUNDS (therapeutic use); TOLBUTAMIDE (therapeutic use).

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ALLOXAN; ANIMAL; CALCIUM (metabolism); DIABETES MELLITUS, EXPERIMENTAL (metabolism); DUODENUM (metabolism); ILEUM (metabolism); MALE; RATS; U.S. GOVT SUPPORTED, N.I.H.); VITAMIN D DEFICIENCY (metabolism).

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (blood, metabolism, urine); DIET, REDUCING; DIETARY CARBOHYDRATES; FATTY ACIDS, NONESTERIFIED (metabolism); HUMAN.

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ADENYL CYCLASE (metabolism); ANIMAL; CELL FUSION; CELL LINE; EPINEPHRINE (metabolism); ERYTHROCYTE MEMBRANE (metabolism); ERYTHROLEUKEMIA

(enzymology); KINETICS; LEUKEMIA, EXPERIMENTAL (enzymology); MEMBRANE PROTEINS (metabolism); METHODS; NOREPINEPHRINE (metabolism); PROPRANOLOL (metabolism); PROTAGLANDINS E (metabolism); RATS; RECEPTORS, ADRENERGIC (metabolism); RECEPTORS, ADRENERGIC, BETA (metabolism); RECEPTORS, HORMONE (metabolism); RECEPTORS, PROTAGLANDIN (metabolism); SPECIES SPECIFICITY; TURKEYS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

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THE EFFECT OF PENTOXIFYLLINE ON ERYTHROCYTE DEFORMABILITY AND ON PHOSPHATE FATTY ACID DISTRIBUTION IN THE ERYTHROCYTE MEMBRANE. Schubotz R, Muhlfellner O *Curr Med Res Opin* 4: 609-17, 1977 (Eng) DL/78APR240
AGED; DIABETIC ANGIOPATHIES (blood); ERYTHROCYTE MEMBRANE (metabolism); ERYTHROCYTES (metabolism, physiology); FATTY ACIDS (blood); FEMALE; HUMAN; MALE; MIDDLE AGE; PENTOXIFYLLINE (pharmacodynamics); PHOSPHOLIPIDS (blood); THEOBROMINE (analogs & derivatives).

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ANIMAL; BLOOD SUGAR (metabolism); ELECTRIC STIMULATION; GLUCOSE (metabolism); INSULIN (pharmacodynamics); LACTATES (metabolism); MALE; MUSCLE CONTRACTION; MUSCLES (metabolism, physiology); OXYGEN CONSUMPTION; PERFUSION; RATS; REGIONAL BLOOD FLOW; U.S. GOVT SUPPORTED, NON-N.I.H.).

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EXPERIENCE WITH LOW-DOSE INSULIN INFUSION IN DIABETIC KETOACIDOSIS AND DIABETIC HYPEROSMOLARITY. Bendezu R, Wieland RG, Forst BH, Mandel M, Genuth SM, Schumacher OP *Arch Intern Med* 138: 60-2, Jan 78 (Eng) DL/78APR543

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ADOLESCENCE; ADULT; AGED; DIABETES MELLITUS (drug therapy, immunology); ENGLISH ABSTRACT; FEMALE; HEPATITIS B ANTIGENS (analysis); HUMAN; INSULIN (therapeutic use); MALE; MIDDLE AGE.

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ANIMAL; AQUEOUS HUMOR (metabolism); CATTLE; CORNEA (metabolism); ENGLISH ABSTRACT; FRUCTOSE (metabolism); GLUCOSE (metabolism); HUMAN; RABBITS; TEARS (metabolism); TISSUE PRESERVATION; VITREOUS BODY (metabolism).

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GLYCOHEMOGLOBIN (HBAIC): A PREDICTOR OF BIRTH WEIGHT IN INFANTS OF DIABETIC MOTHERS. Widness JA, Schwartz HC, Thompson D, King KC, Kahn CB, Oh W, Schwartz R *J Pediatr* 92: 8-12, Jan 78 (Eng) DL/78APR367

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ANIMAL; BLOOD SUGAR (metabolism); CYANOGEN BROMIDE; INSULIN (pharmacodynamics); MALE; MUSCLES (drug effects, metabolism); PEPTIDE FRAGMENTS (pharmacodynamics); RATS; SOMATOTROPIN (pharmacodynamics).

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ANIMAL; AUTORADIOGRAPHY; CIRCADIAN RHYTHM; DEOXY SUGARS (metabolism); DEOXYGLUCOSE (metabolism); FEMALE; GLUCOSE (metabolism); HYPOTHALAMUS (metabolism); LIGHT; RATS; SUPROPTIC NUCLEUS (metabolism).

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FATTY ACIDS, NONESTERIFIED (metabolism); HUMAN; LIPIDS (blood); LIVER CIRRHOSIS (surgery); PORTACAVAL ANASTOMOSIS.

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C-PEPTIDE (blood); HUMAN; HYPOGLYCEMIA (blood); INSULIN (blood); PEPTIDES (blood).

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ACYL COENZYME A (metabolism); ADENOSINE CYCLIC-3,5-MONOPHOSPHATE (metabolism); ADENOSINE MONOPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL; DIABETES MELLITUS, EXPERIMENTAL (metabolism); FATTY ACIDS, NONESTERIFIED (blood); GLUCOSE (metabolism); INSULIN (pharmacodynamics);

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AGED; BLOOD VOLUME (drug effects); CASE REPORT; FOOD (adverse effects); HUMAN; HYPOTENSION (etiology); INSULIN (pharmacodynamics); MALE; PARKINSONISM (complications).

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ANIMAL; DOGS; ENGLISH ABSTRACT; GASTRINS (secretion); HISTAMINE (blood); HYPOGLYCEMIA (blood, chemically induced); INSULIN (pharmacodynamics); NOREPINEPHRINE (blood); SEROTONIN (blood).

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CASE REPORT; FEMALE; HUMAN; HYPERTHYROIDISM (complications); HYPOGLYCEMIA (complications); INSULIN ANTIBODIES (analysis); MIDDLE AGE; SYNDROME.

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ADULT; BODY WEIGHT; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; MEGESTROL (pharmacodynamics); TIME FACTORS; TRIGLYCERIDES (blood).

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[HYDROLYSIS AND CARBOHYDRATE ABSORPTION PROCESSES IN CHILDREN WITH HYPOTROPHY OF ALIMENTARY AND INFECTIOUS ORIGIN] Smilan IS, Loboda VF *Pediatr Akush Ginekol* 16-7, Mar-Apr 77 (Ukr) *DL/78APR105

ABSORPTION; BLOOD SUGAR (analysis); CARBOHYDRATES (metabolism); DIET; FEMALE; GROWTH DISORDERS (etiology, metabolism); HUMAN; HYDROLYSIS; INFANT; MALE.

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ASCORBIC ACID (pharmacodynamics); COPPER; DIABETES MELLITUS (diagnosis); FALSE POSITIVE REACTIONS; GLYCOSURIA (diagnosis); HUMAN; REAGENT KITS, DIAGNOSTIC; SULFATES.

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Takeuchi J

PITUITARY-ADRENAL SYSTEM (physiology); TIME FACTORS; VISION DISORDERS (complications); VISUAL FIELDS.

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ANIMAL; DIABETES MELLITUS, EXPERIMENTAL (complications); DIETARY

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ADOLESCENCE; ADULT; CHILD; DAY CARE; DIABETES MELLITUS (therapy); DIABETES MELLITUS, JUVENILE (therapy); GREAT BRITAIN; HOSPITAL UNITS; HUMAN; MIDDLE AGE.

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